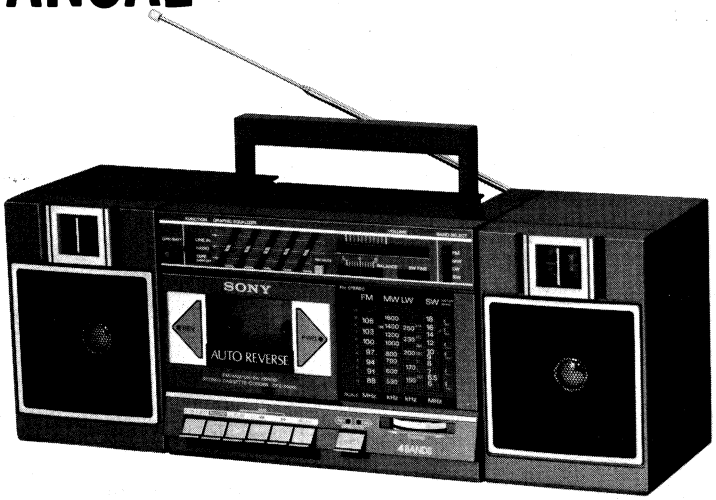
CFS-5000L

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Tape Transport Mechanism Type	MF-5000-78

Radio section

Frequency range
FM 87.6–107 MHz (G·AEP model)
FM 87.6–108 MHz (AEP, UK model)
MW 530–1,605 kHz (566–187 m)
LW 150–255 kHz (2,000–1,176 m)
SW 6–18 MHz (50–16.7 m)

Antennas
FM/SW: Telescopic antenna
MW/LW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system: 4-track 2-channel stereo

Fast winding time: Approx. 2 min. 10 sec. with Sony cassette HF-60

Frequency response
80–8,000 Hz

Graphic equalizer
Boost/cut range: ±10 dB
Center frequencies: 100 Hz, 400 Hz, 1 kHz, 4 kHz, 10 kHz

Speakers
Two-way: Woofer 10 cm (4 inches) dia. × 2
Tweeter 2.7 cm (1⅛ inches) dia. × 2
Impedance 6 ohms
Nominal power handling capacity 5 W
Maximum power handling capacity 7.5 W

Power output: 4.5 W + 4.5 W (at 10% harmonic distortion) in dc operation

Inputs
Two external microphone input jacks (minijack)
sensitivity 0.44 mV (–65 dB) for low impedance microphone
Line input jack (stereo minijack)
sensitivity 0.11 V (–17 dB)
input impedance 10 kilohms

Outputs
Headphones jack (stereo minijack)
for 8–300-ohm impedance headphones
Line output jack (stereo minijack)
load impedance 10 kilohms or higher
rated output 0.44 V (–5 dB) at load impedance 47 kilohms
Speaker terminals
for 6-ohm impedance speaker

Power requirements
UK model:
240 V ac, 50 Hz
AEP model:
220 V ac, 50 Hz
9 V dc, six batteries IEC designation R20 (size D)

Power consumption
UK model:
23 W in ac operation
AEP model:
13 W in ac operation

Battery life: Approx. 7 hours of continuous recording with the built-in radio using Sony SUM-1 (NS) New Super batteries

Dimensions: Approx. 482 × 179 × 168 mm (w/h/d) (19 × 7⅛ × 6⅝ inches) incl. projecting parts and controls, not incl. handle

Weight: Approx. 3.5 kg (9 lb 8 oz) incl. batteries

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

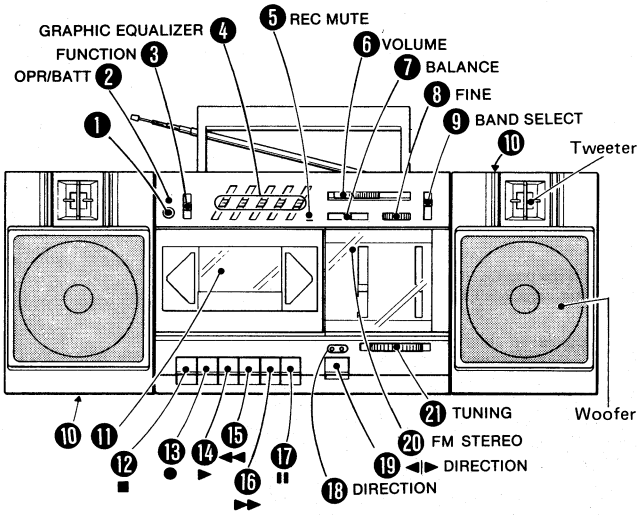
MICROFILM

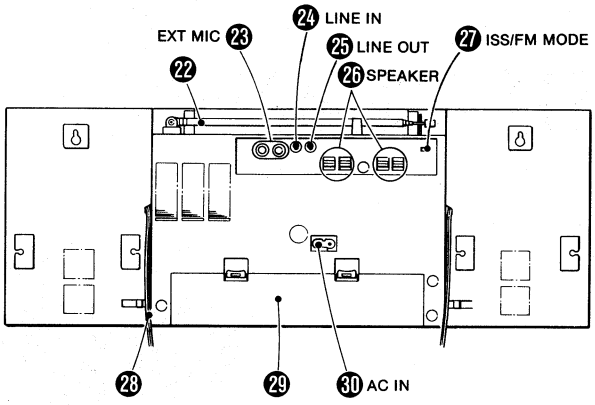
FM/MW/LW/SW STEREO CASSETTE-CORDER

SONY®

TC

LOCATION AND FUNCTION OF CONTROLS





❶ ∩ **(headphones)jack**
Stereo minijack for headphones listening.
When connecting the headphones, the speakers are automatically disconnected.

❷ **OPR/BATT (operation/battery) indicator**
Lights up to show operation.
The indicator also shows the battery condition.

❸ **FUNCTION selector**
LINE IN: For recording or listening to the sound source connected to the LINE IN jack on the rear.
RADIO: For listening to or recording radio program.
TAPE/RADIO OFF: For playing back the tape, or for recording from the external microphones.
Be sure to set the FUNCTION selector to TAPE/RADIO OFF when the set is not in use. (This position is **power off** for the radio when the tape operation mode select buttons are in the neutral position.)

❹ **GRAPHIC EQUALIZER controls**
Slide downwards or upwards to equalize the reproduced sound. When the equalizer is not used, set the controls to 0 (center position).

❺ **REC MUTE (record muting) button**
Press this button to eliminate unwanted programs and provide a blank space during recording.

❻ **VOLUME control**
Slide to the right for more volume.

❼ **BALANCE control**
Slide to adjust right and left speaker volume for optimum stereo effect.

❽ **FINE tuning knob**
Turn to precisely tune in the SW frequency.

❾ **BAND SELECT switch**
Select the desired band, FM, MW, LW or SW.

❿ **Speakers**

⓫ **Cassette holder**

⓬ ■ **STOP/EJECT button:** Press to stop the tape and to release the locked button. Press again to open the cassette holder.

⓭ ● **RECORD button:** Depress to record. The ▶ button will automatically be depressed.

⓮ ▶ **PLAY button:** Depress for playback.

⓯ ◀◀ **button:** Depress to rapidly wind the tape to the left.

⓰ ▶▶ **button:** Depress to rapidly wind the tape to the right.

⓱ ❚❚ **PAUSE button:** Depress to momentarily stop the tape during recording or playback. To restart, press it again. To stop the tape for an extended time, use the ■ button.

⓲ **DIRECTION indicators (** REV ○ **and** ○ FWD **)**
Show the direction of the tape transport.

⓳ ◀|▶ **DIRECTION (tape transport direction) button**
Press to listen to the other side of the cassette during playback.

⓴ **FM STEREO indicator**
This indicator will light when an FM stereo program of sufficient signal strength is tuned in.

㉑ **TUNING knob and dial scale**
Turn the knob to select the frequency of the desired station.

㉒ **Telescopic antenna**
Used for FM and SW reception.

㉓ **EXT MIC (external microphone input) jacks**
Minijacks for recording with external microphones.
Set the FUNCTION selector to TAPE/RADIO OFF.

㉔ **LINE IN (line input) jack**
Stereo minijack for listening to or recording the sound from various sound sources.
Set the FUNCTION selector of the CFS-5000L to LINE IN.

㉕ **LINE OUT (line output) jack**
Stereo minijack for recording a tape from the CFS-5000L onto another tape recorder or listening to the CFS-5000L sound through a stereo amplifier.
Set the FUNCTION selector to TAPE/RADIO OFF.

㉖ **SPEAKER terminals**
Connect the speaker system using the speaker cords.

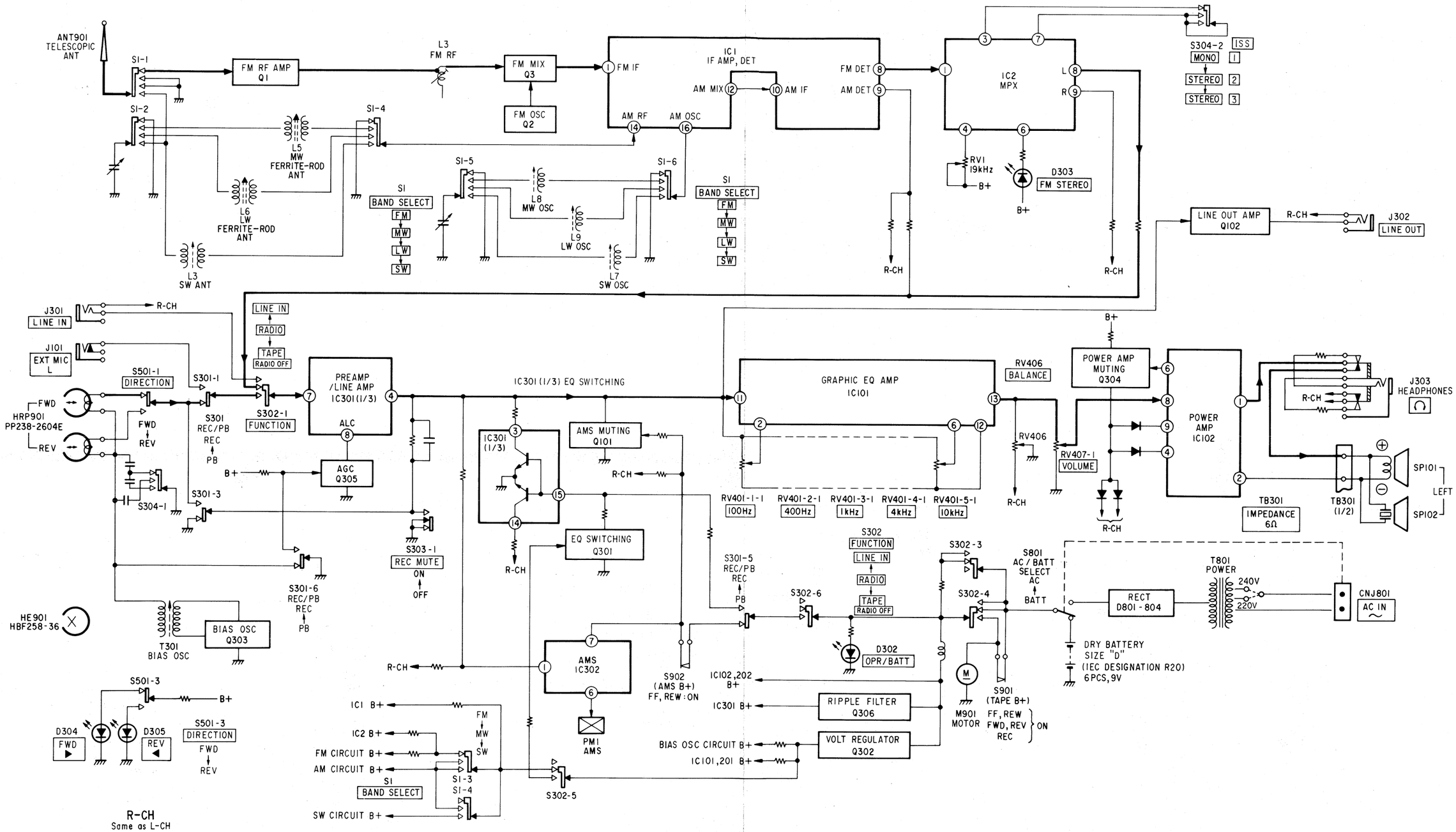
㉗ **ISS (Interference Suppress Switch) /FM MODE selector**
ISS: While recording MW/LW program, if a beat (whistling noise) is heard, set the ISS selector to 1, 2 or 3, depending on which best reduces the noise.
FM MODE: Used for FM reception. Normally set the selector to STEREO. Set to MONO when it is hard to hear the broadcast due to noise.

㉘ **Speaker cord**

㉙ **Battery compartment**

㉚ **AC IN socket**

SECTION 1
BLOCK DIAGRAM

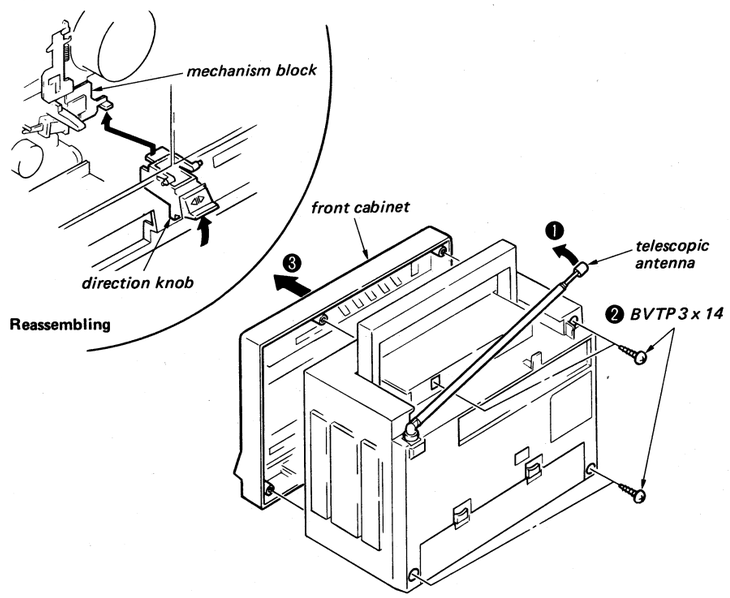


R-CH
Same as L-CH

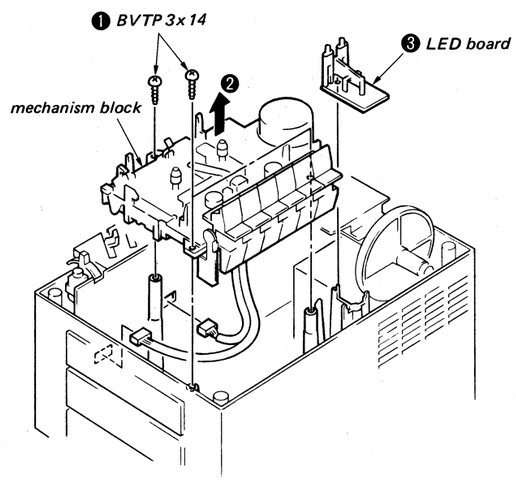
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

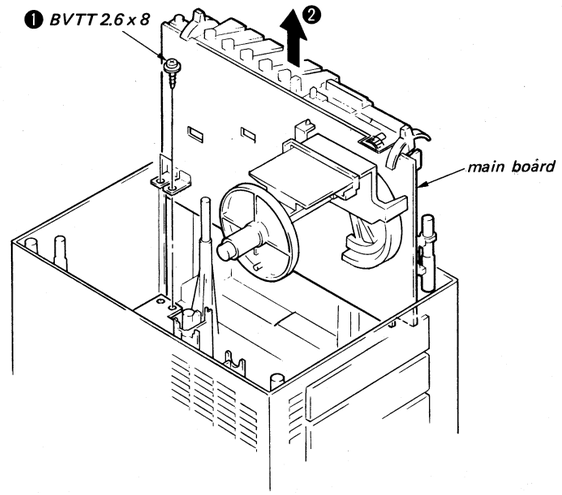
FRONT CABINET



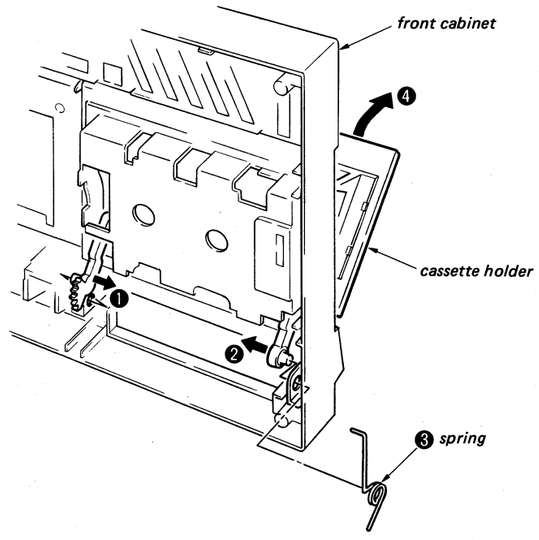
MECHANISM BLOCK/LED BOARD



MAIN BOARD

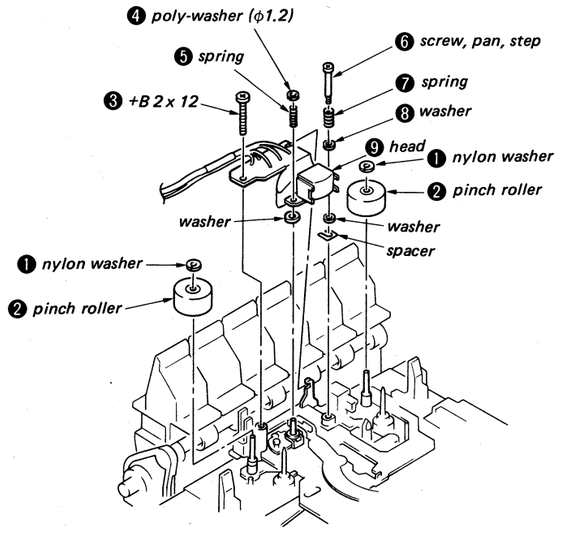


CASSETTE HOLDER

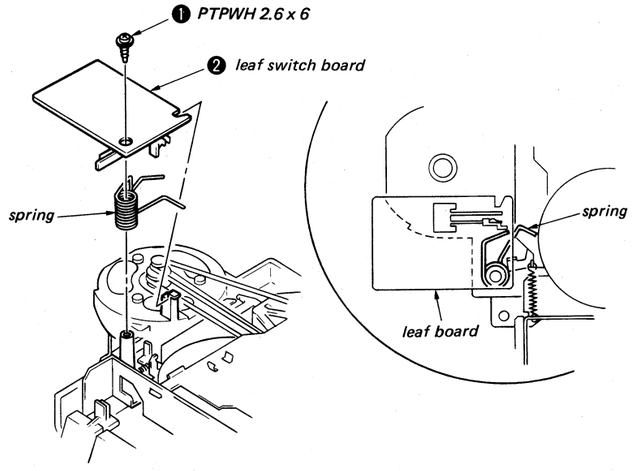


PINCH ROLLER/HEAD

❶ , ❷ pinch roller
❸ – ❾ head

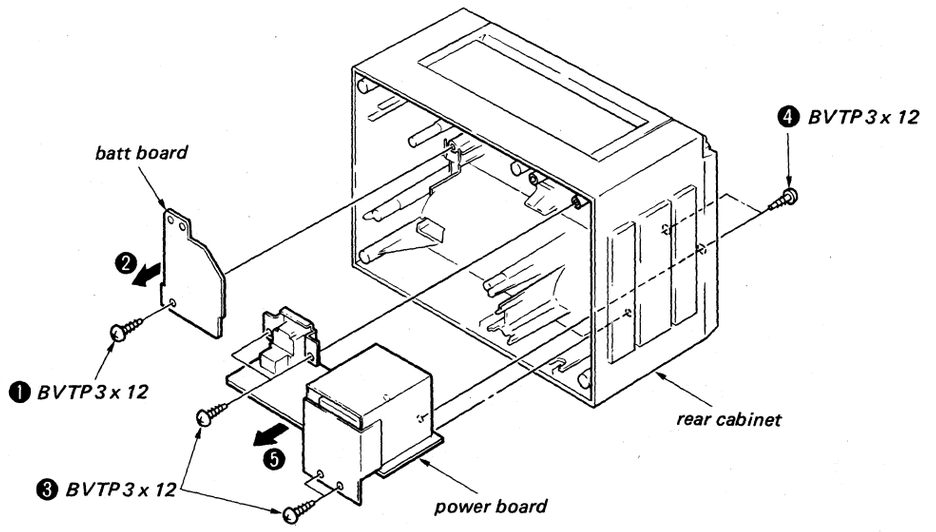


LEAF SWITCH

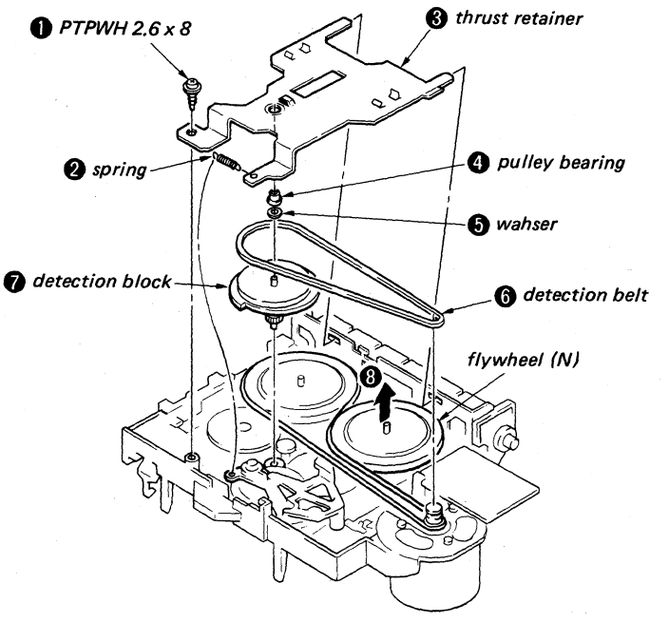


BATT BOARD/POWER BOARD

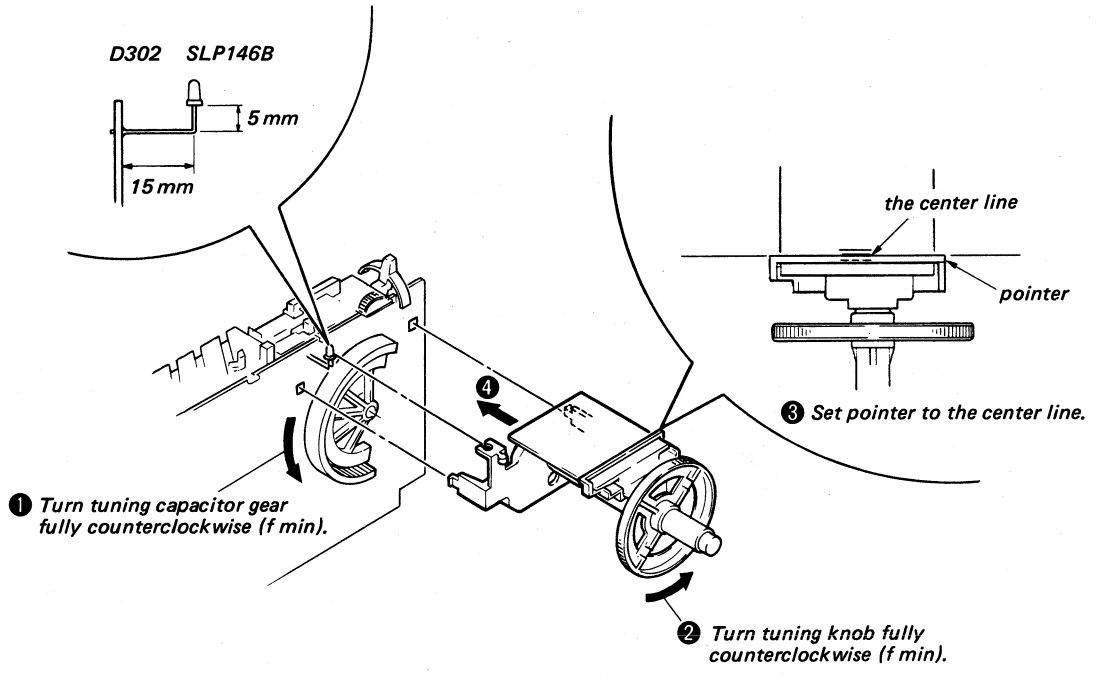
❶ , ❷ batt board
❸ – ❺ power board



FLYWHEEL (N)



POINTER SETTING



SECTION 3
ADJUSTMENTS

MECHANICAL ADJUSTMENTS

PRECAUTION

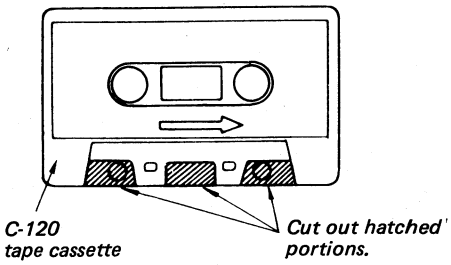
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

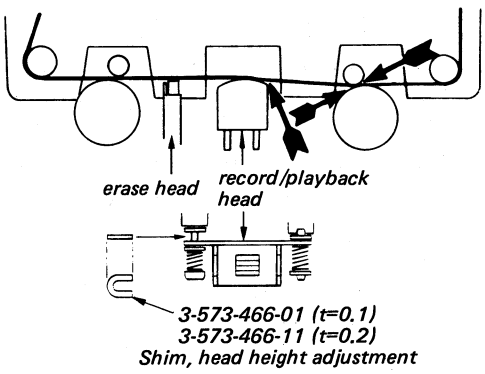
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. The adjustments should be performed in the order given in this service manual.
   The adjustments should be performed for both L-CH and R-CH.

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.

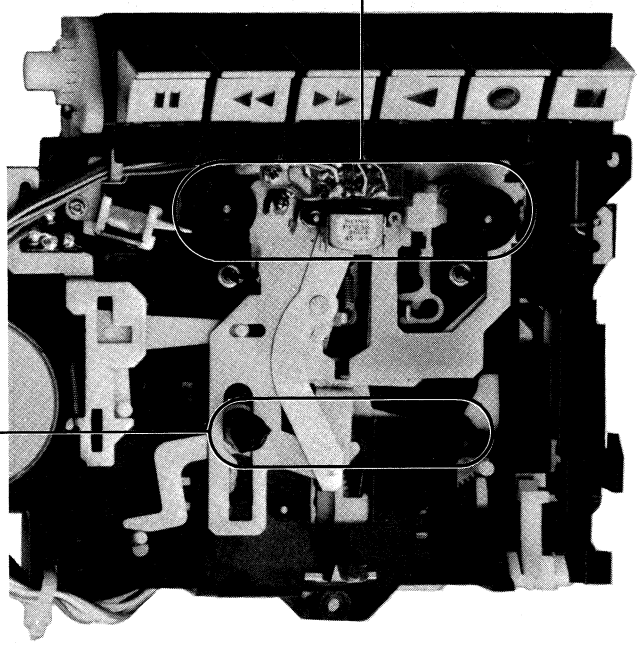


Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	28 – 52 g•cm (0.39 – 0.72 oz•inch)
FWD Back Tension		2.5 – 5.5 g•cm (0.04 – 0.07 oz•inch)
REV	CQ-102RC	28 – 52 g•cm (0.39 – 0.72 oz•inch)
REV Back Tension		2.5 – 5.5 g•cm (0.04 – 0.07 oz•inch)
FF/REW	CQ-201B	95 – 145 g•cm (1.33 – 2.01 oz•inch)

Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 120 g (more than 1.67 oz•inch)
REV	CQ-403R	



ELECTRICAL ADJUSTMENTS

CASSETTE SECTION

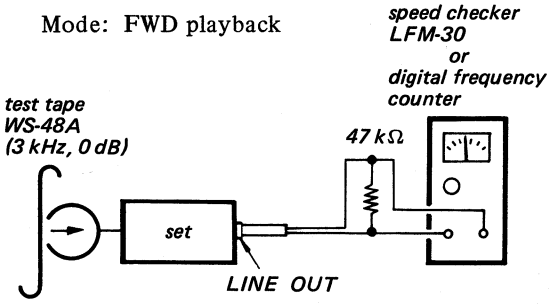
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: FWD playback

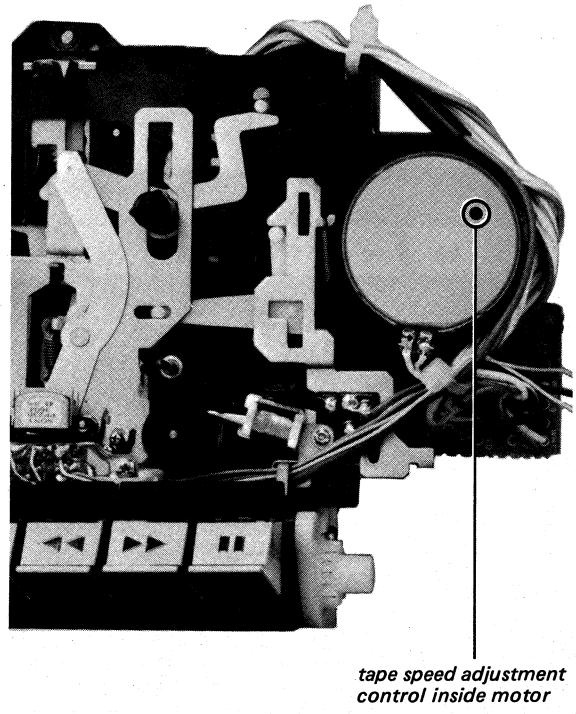


Specification:

Speed checker	Digital frequency counter
-2.5 to +1.5%	2,925 to 3,045 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).
Also in REV playback mode, confirm to obtain the above specification.

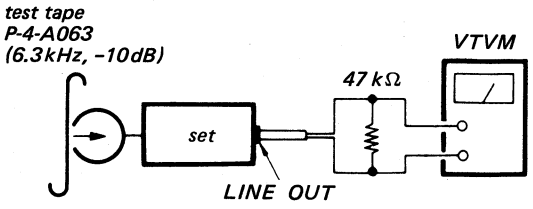
Adjustment Location:



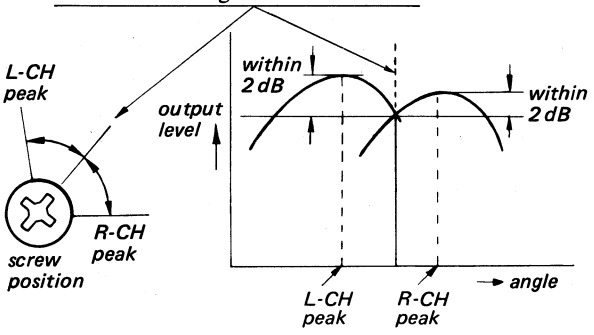
Record/playback Head Azimuth Adjustment

Procedure:

1. Mode: FWD playback

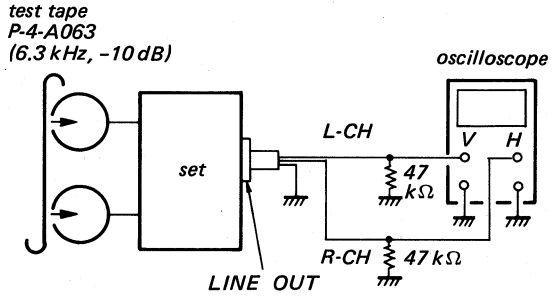


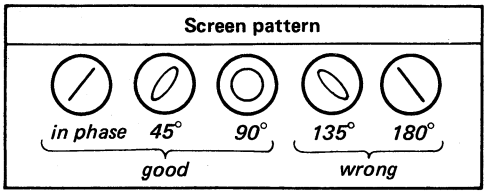
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.



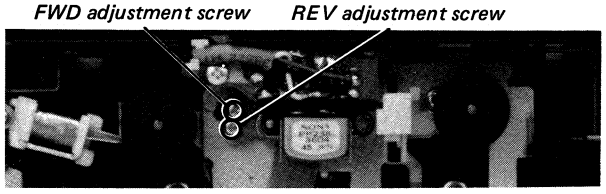
Also in REV playback mode, perform the above adjustment. After the adjustment, comfirm to obtain the specification in FWD playback mode again.

3. Phase Check
Mode: FWD playback and REV playback





Adjustment Location:

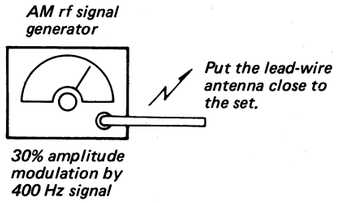


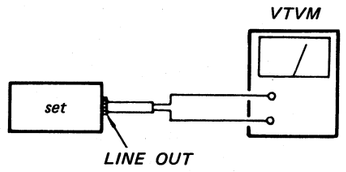
RADIO SECTION

• AM SECTION

LW

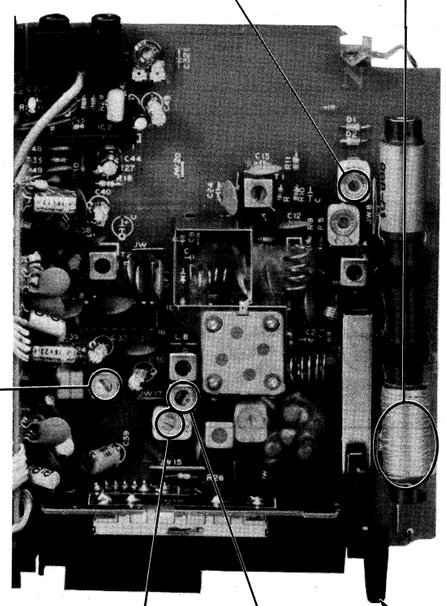
FUNCTION switch: RADIO
BAND SELECT switch: LW





• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
230 kHz	160 kHz
CT6	L6



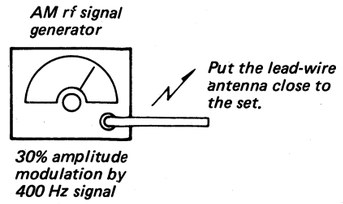
AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
455 kHz	T3

CT8	L9
265 kHz	145 kHz
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

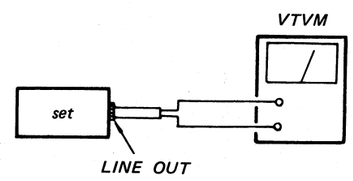
S1 BAND SELECTOR
FM
↓
MW
↓
LW
↓
SW

MW

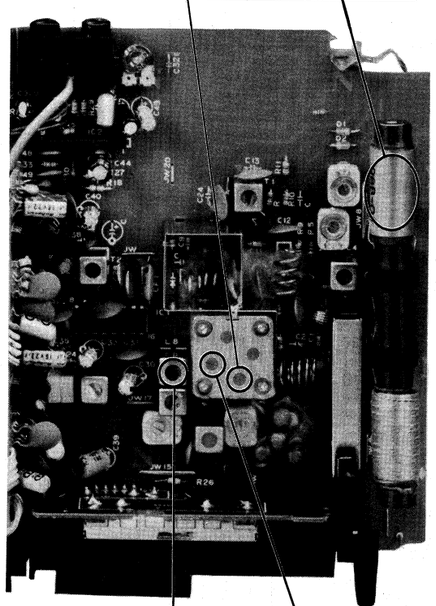
FUNCTION switch: RADIO
BAND SELECT switch: MW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



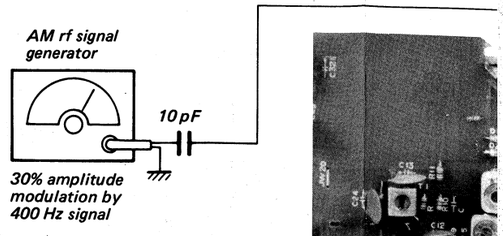
TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
1,400 kHz	620 kHz
CT3	L5



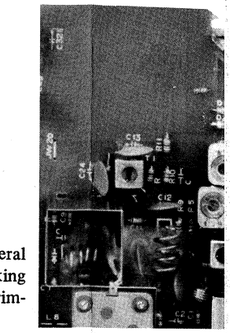
L8	CT4
518 kHz	1,680 kHz
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

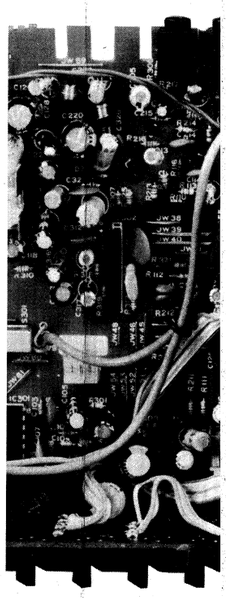
SW

FUNCTION switch: RADIO
BAND SELECT switch: SW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.





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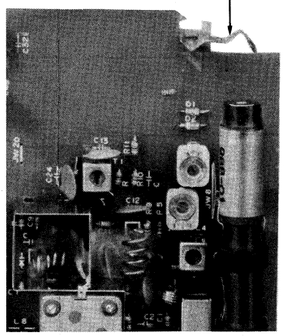
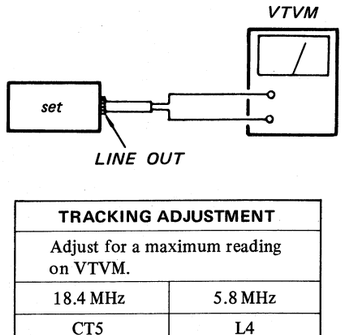
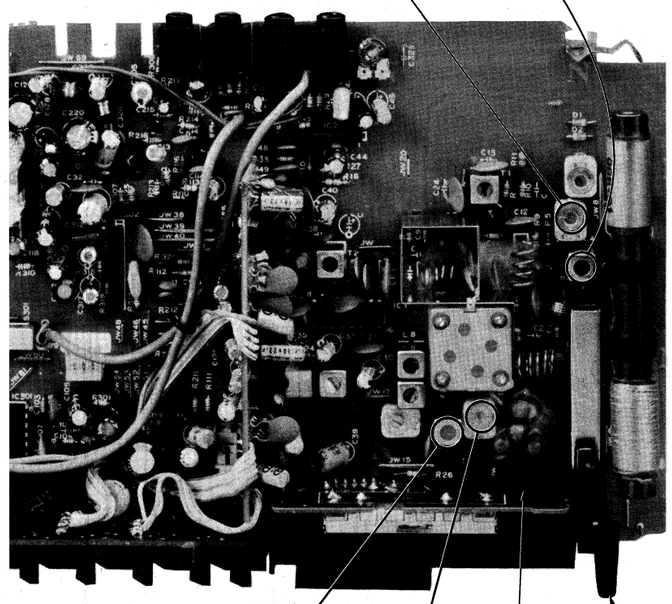




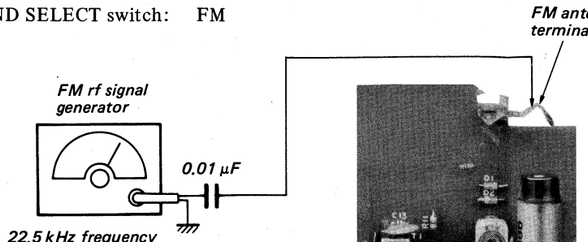
TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
18.4 MHz	5.8 MHz
CT5	L4



L7	CT7
5.8 MHz	18.4 MHz
Adjust for a maximum reading on VTVM.	
FREQUENCY COVERAGE ADJUSTMENT	

• FM SECTION

FUNCTION switch: RADIO
BAND SELECT switch: FM

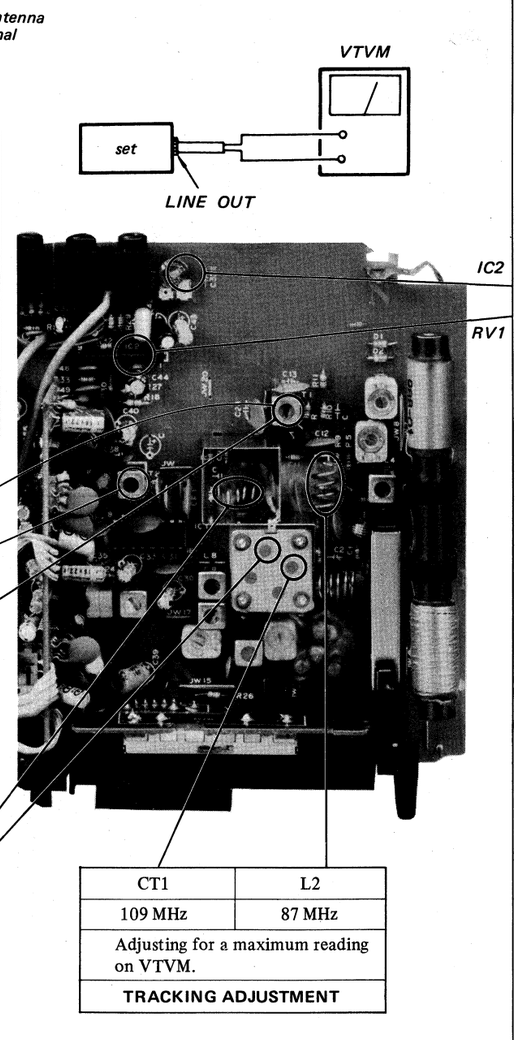


(Modulation turned off for IF Alignment 2.)

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM IF ALIGNMENT 1	
Adjust for 0 V reading on VTVM.	
10.7 MHz	T1
	T2

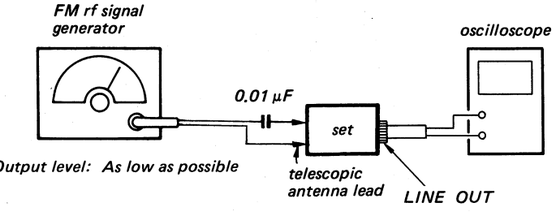
FREQUENCY COVERAGE ADJUSTMENT	
Adjusting for a maximum reading on VTVM.	
87 MHz	L3
109 MHz	CT2



CT1	L2
109 MHz	87 MHz
Adjusting for a maximum reading on VTVM.	
TRACKING ADJUSTMENT	

FM IF ALIGNMENT 2

Procedure:

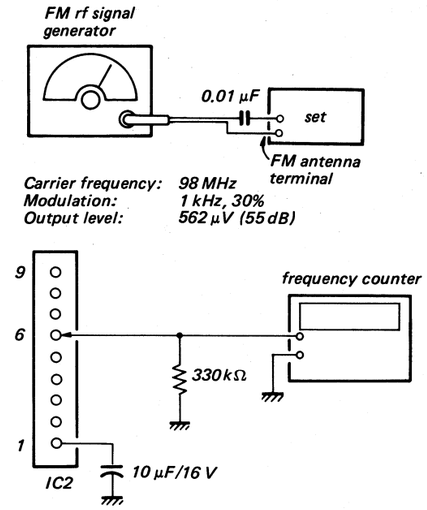


1. Turn T1 fully clockwise.
2. Make sure that sinewave appears three times when changing rf signal-generator frequency gradually.
3. Set rf signal-generator frequency for second sinewave, and precisely adjust rf signal-generator frequency for maximum reading on oscilloscope.
4. Adjust T1 for maximum reading and minimum noise on oscilloscope.

VCO Adjustment

A) Regular Method

Procedure:

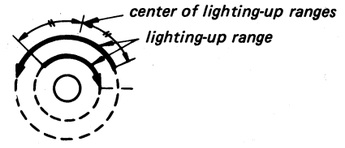


1. Tune the set to 98 MHz.
2. Adjust RV1 for 38 kHz ± 0.3 kHz on the counter.

B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



SECTION 4
DIAGRAMS

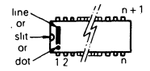
● Semiconductor Lead Layouts

2SA1175
2SC668-SP
2SC2458
2SC2668-0
2SC2839
2SD1012

2SC1815-GR

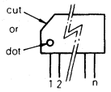
2SK193

LA1260S
LA3600
TA7668AP

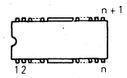


(Top view)

LA2010
TA7343AP

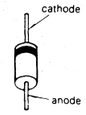


LA4182

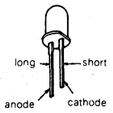


(Top view)

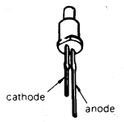
1S1555
1S2139C
1SS119
20E2HTA2



SLP135B

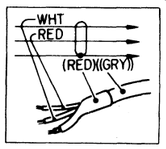


SLP146B



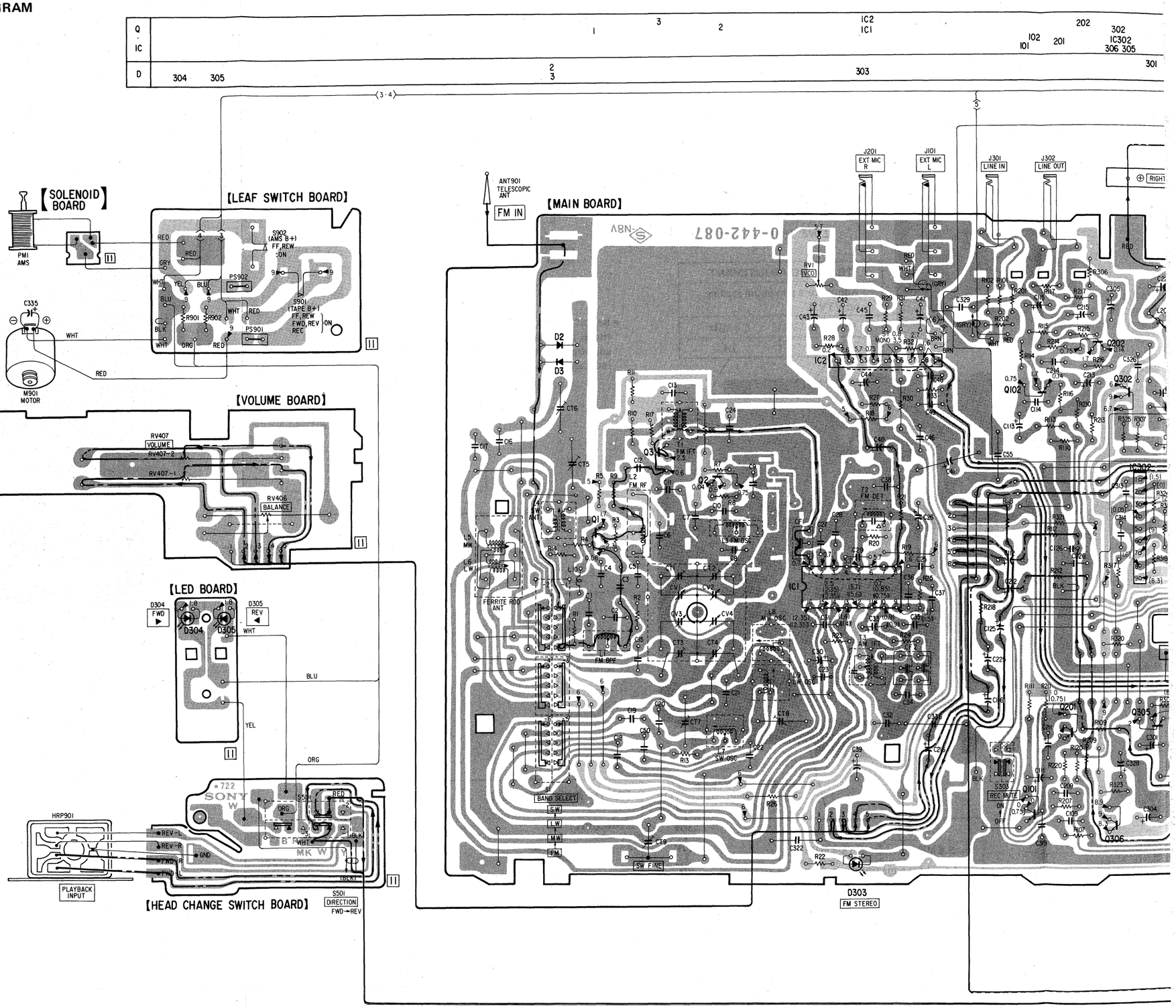
Note:

- Color code of sleeving over the end of the jacket.



- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- [ ]— : indicates side identified with part number.
- ▬▶▬ : signal path
- ▬▶ : L-CH signal path
- ▬·▶ : R-CH signal path
- ▒ : B+ pattern

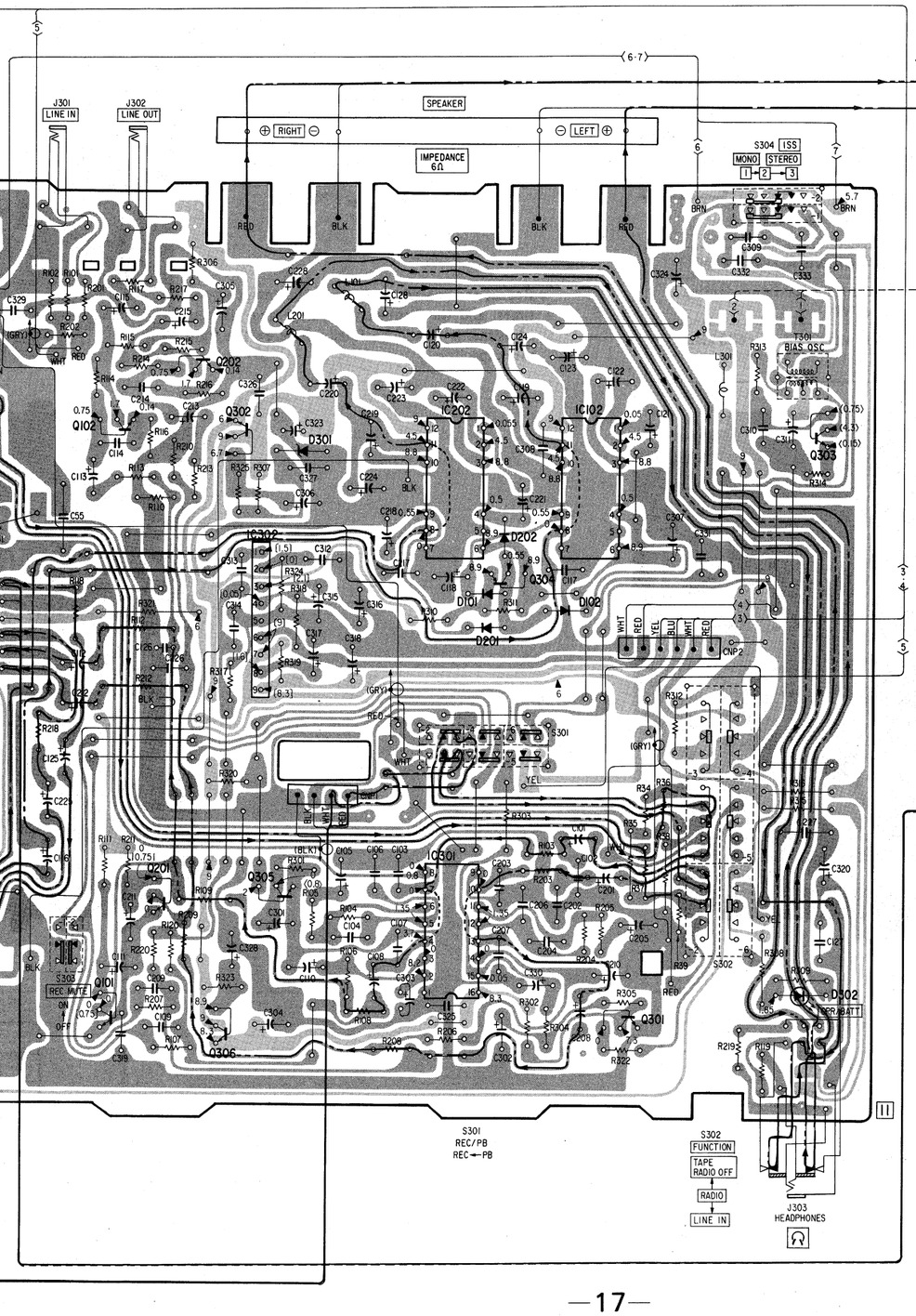
4-1. MOUNTING DIAGRAM



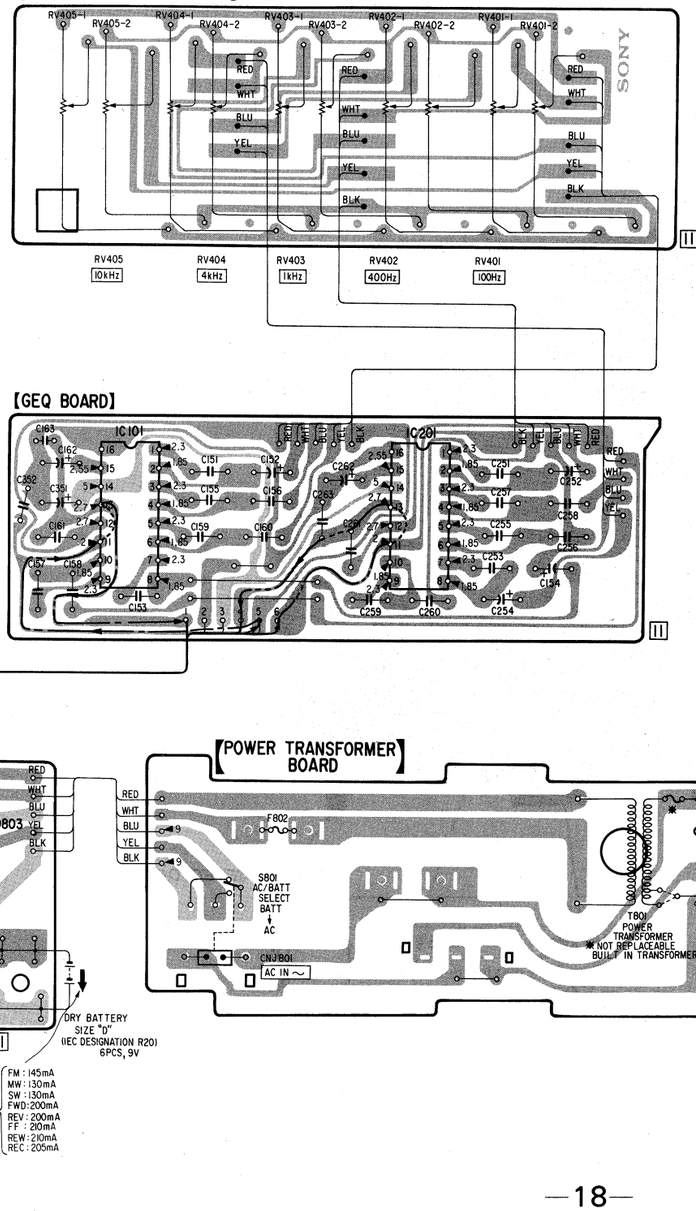
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

A B C D E F G H I J

202 302 IC202 IC102 303 IC101 IC201 Q-IC
102 201 IC302 IC301 304
101 306 305 301
301 101 202 102 302 802 804 801 803 D
201

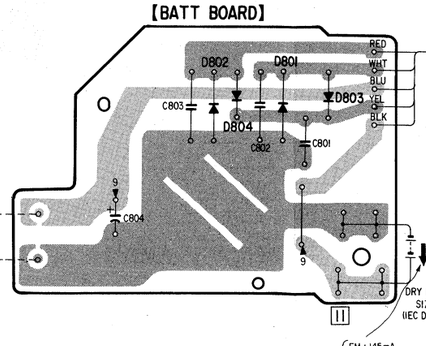


【CARBON RESISTOR BOARD】

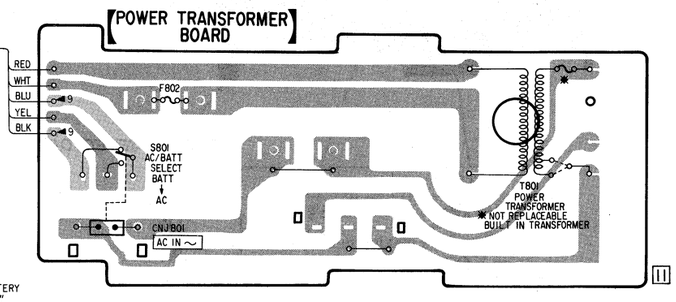


【GEQ BOARD】

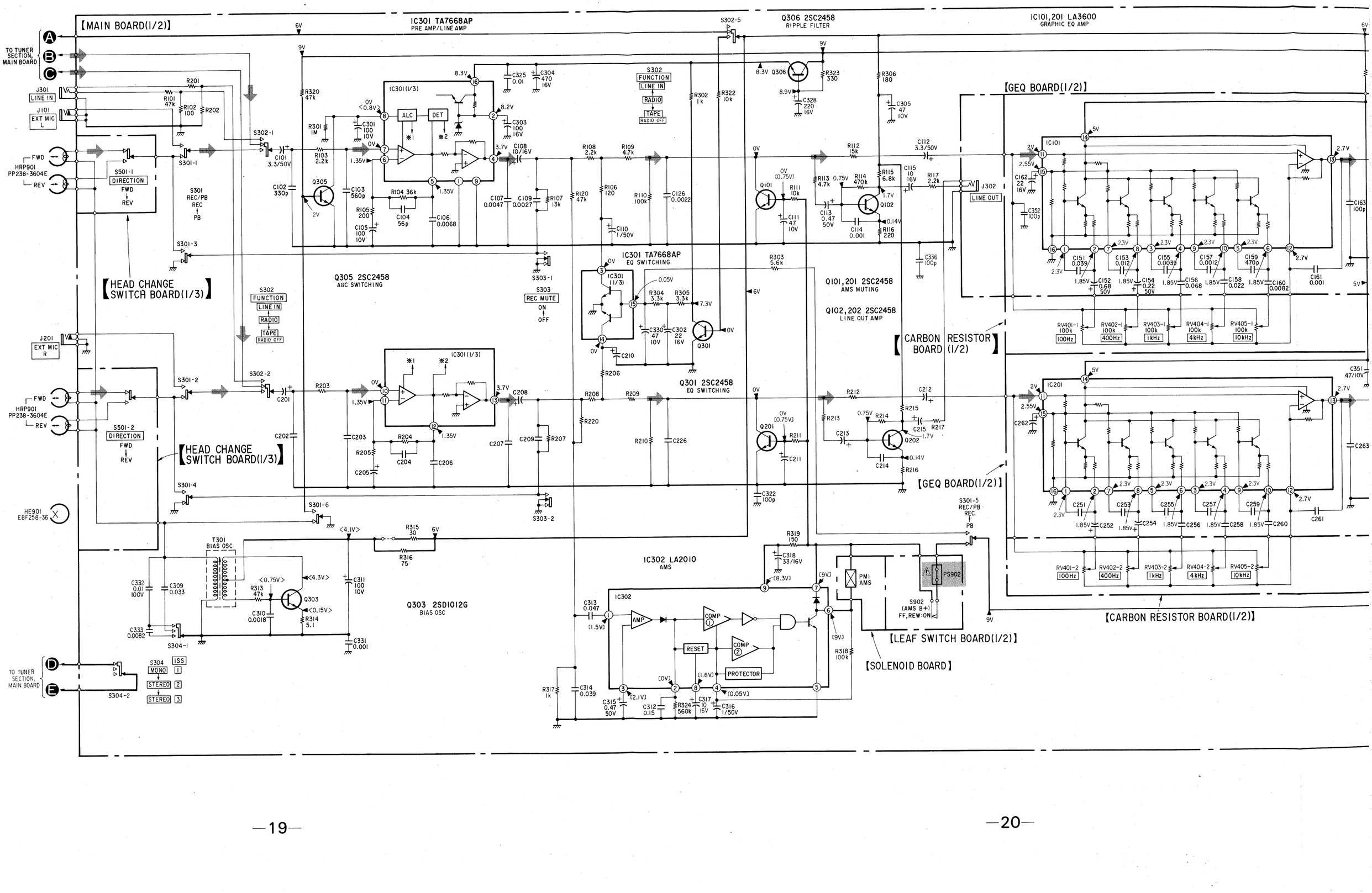
【BATT BOARD】

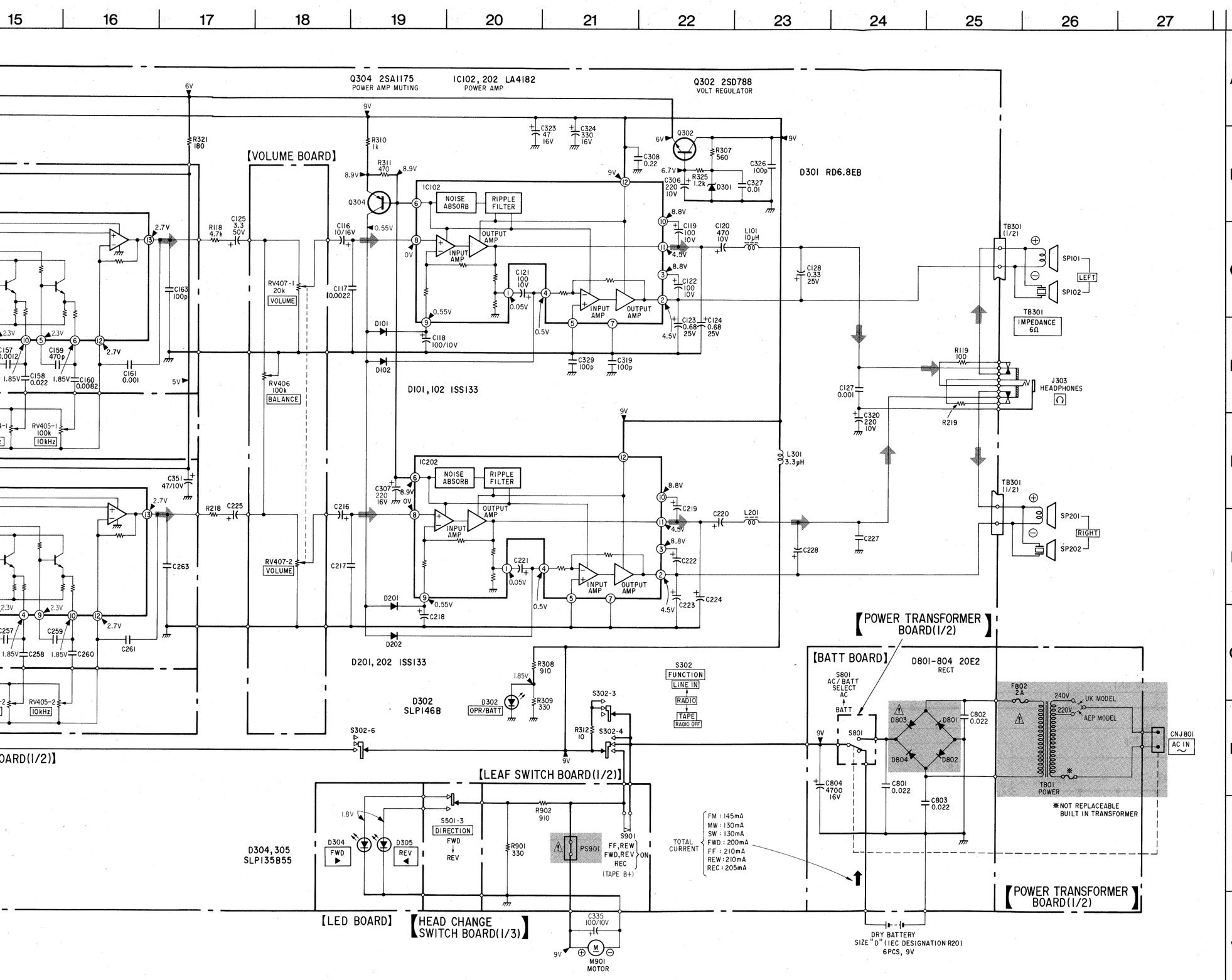


【POWER TRANSFORMER BOARD】



4-2. SCHEMATIC DIAGRAM





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ➡ : signal path.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- △ : internal component.
- ▬ : B+ bus.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with VOM (50 kΩ/V).
  ( ) : MW, LW (( )) : SW
  [ ] : FF, REW no mark: FM
  < > : REC
- Voltage variations may be noted due to normal production tolerances.
- Power voltage is 9 V and fed with batteries.
  Voltage variations may be noted due to normal production tolerances.
- Switches:

Ref. No.	Switch	Position
S1	BAND SELECT	FM
S301	REC/PB	PB
S302	FUNCTION	RADIO
S303	REC MUTE	OFF
S501	DIRECTION	FWD
S801	AC/BATT	BATT
S901	TAPE B+	OFF
S902	AMS B+	OFF

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-3. SCHEMATIC DIAGRAM

– Radio Section –

【MAIN BOARD(1/2)】

Q1 2SC2840-E
FM RF AMP

Q3 2SC2839-E
FM MIX

IC1 LA1260S
IF AMP, DET

D2,3 1SI555

ANT901
TELESCOPIC ANT

SI-1

L1
FM BPF

L2
FM RF

T1
FM IFT

T2
FM DET

CF1

SI
BAND SELECT
FM
MW
LW
SW

Q2 2SC2668-0
FM OSC

L3
FM OSC

REG

AM RF AMP

AM MIX

AM OSC

T3
AM IFT

AM IF AMP

FM IF AMP

GND

CF2

L4
SW ANT

L5
MW FERRITE-ROD ANT

L6
LW FERRITE-ROD ANT

L7
SW OSC

L8
MW OSC

L9
LW OSC

SW FINE

SI-2

SI-4

SI-5

SI-6

IC2 TA7343AP
FM MPX

D303 SLP135B

VCO

IC2

AF

PHASE DETECTOR

DC

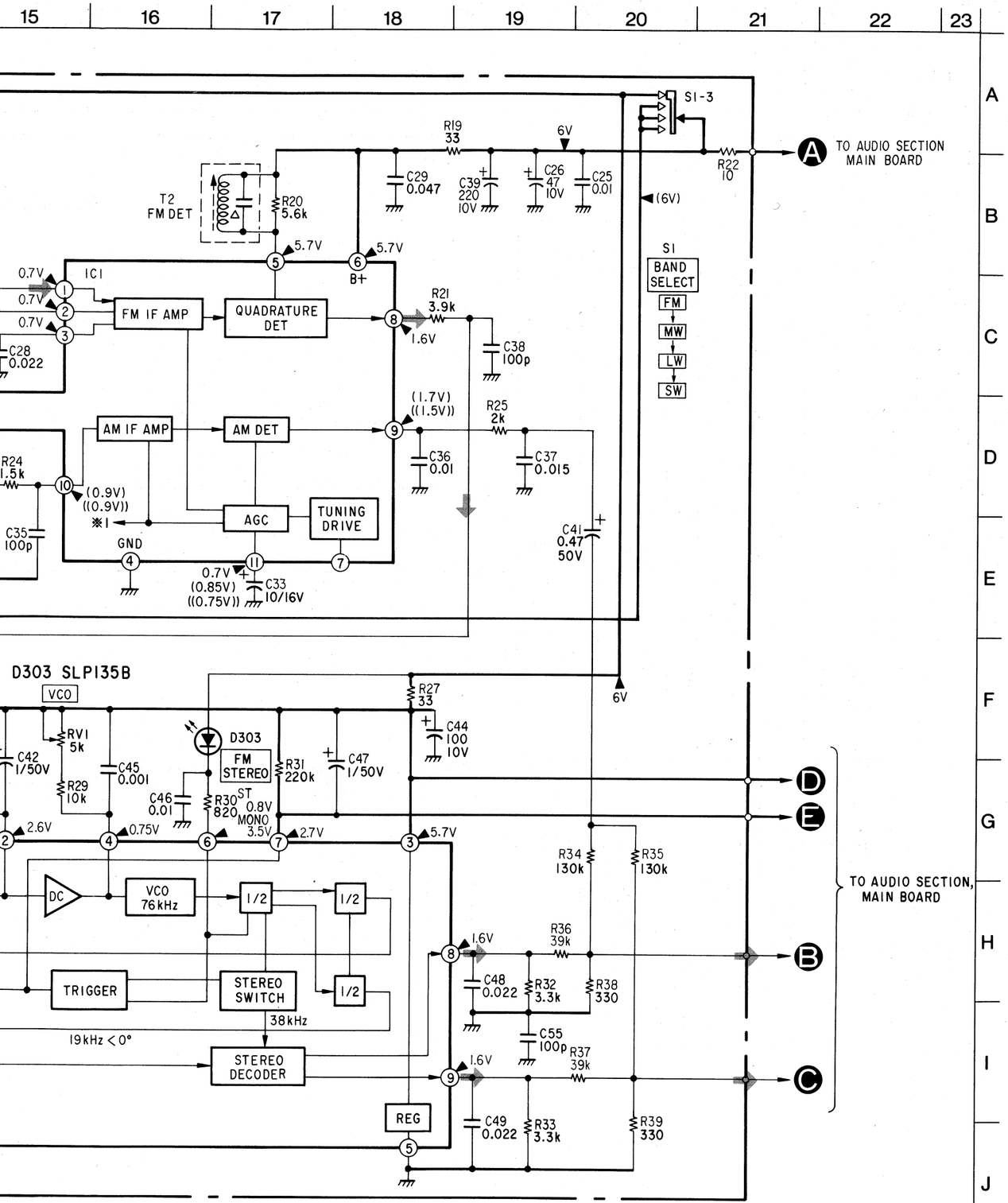
VCO
76kHz

PHASE DETECTOR

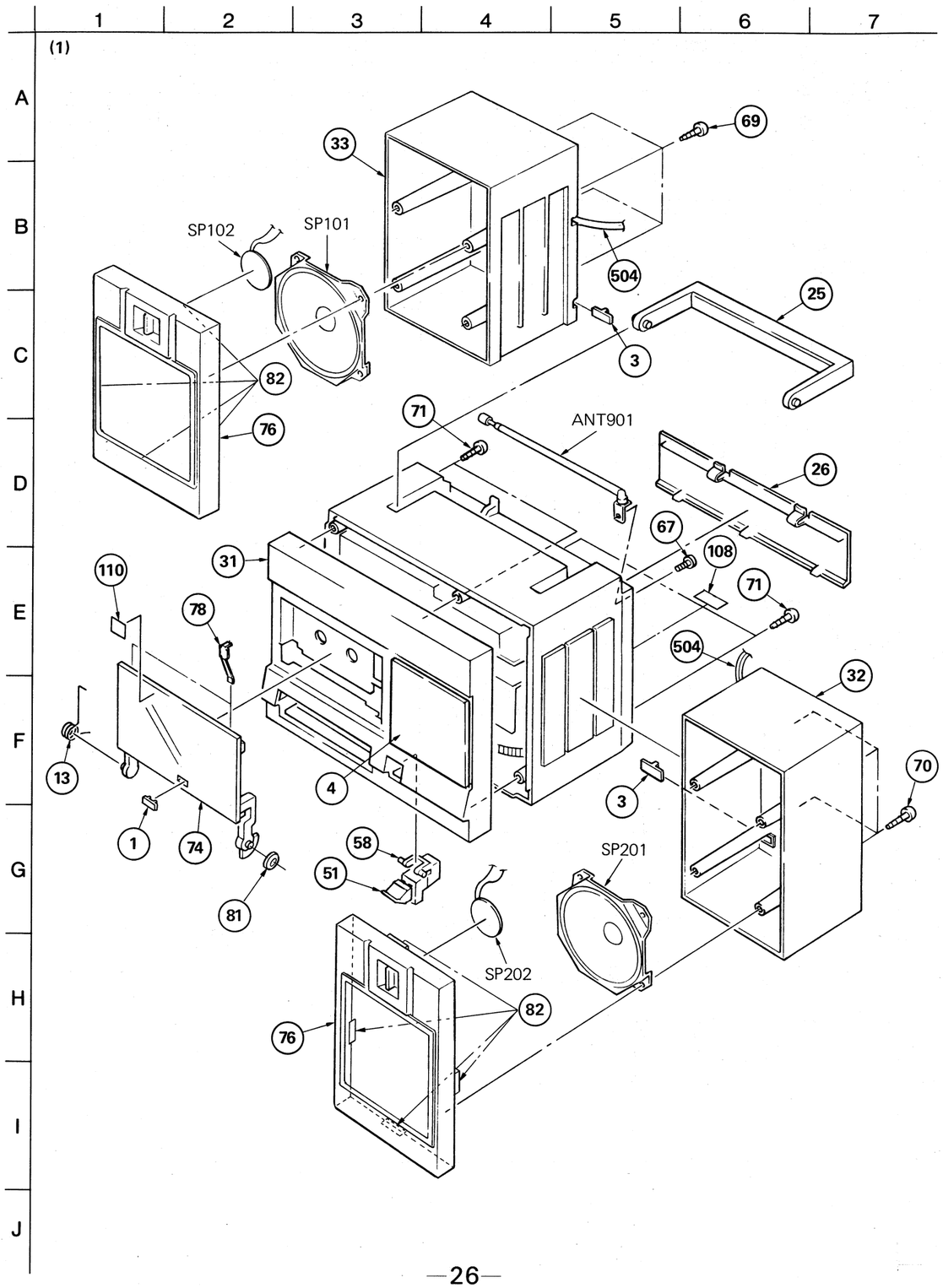
TRIGGER

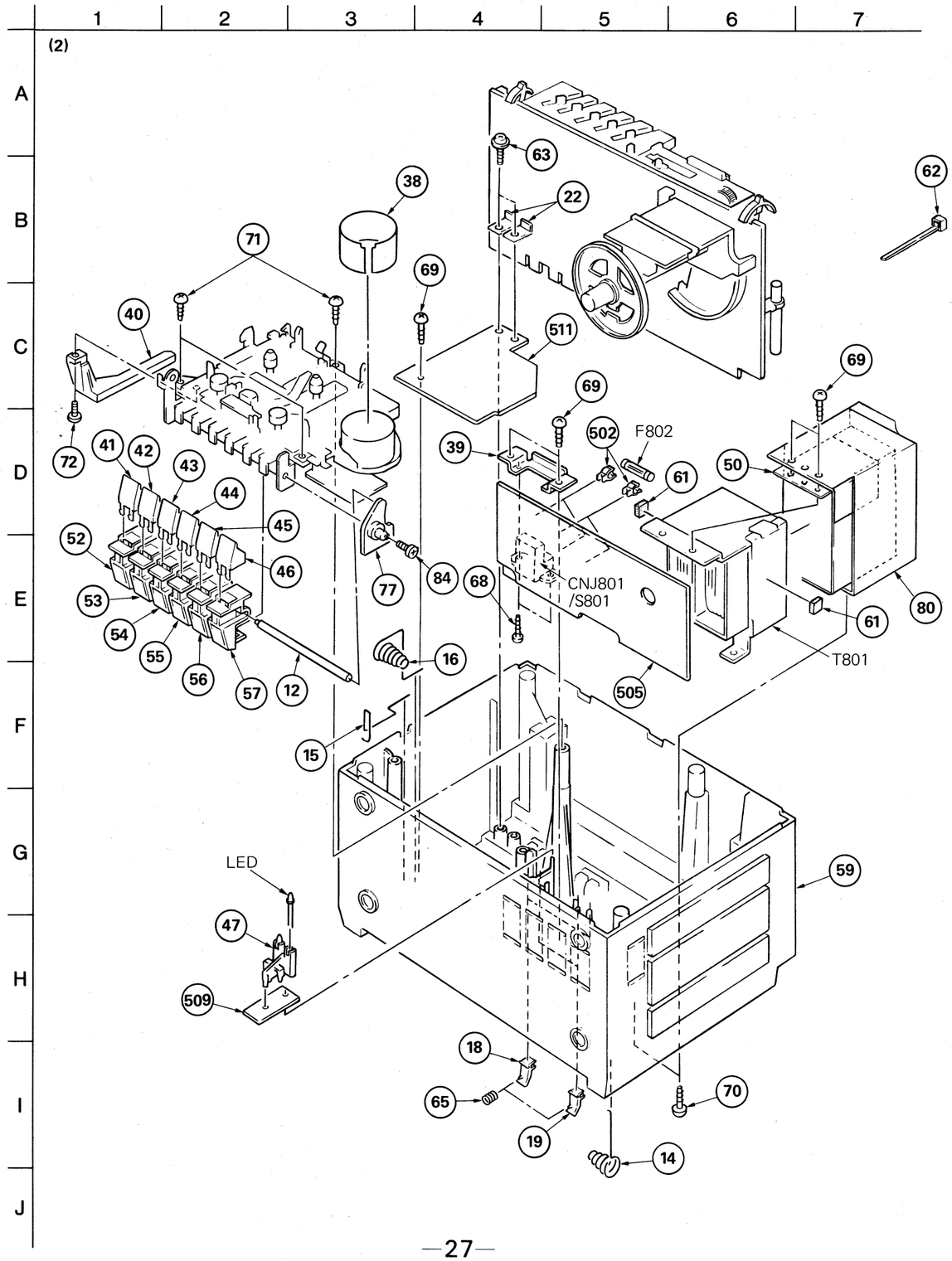
19kHz < 0°

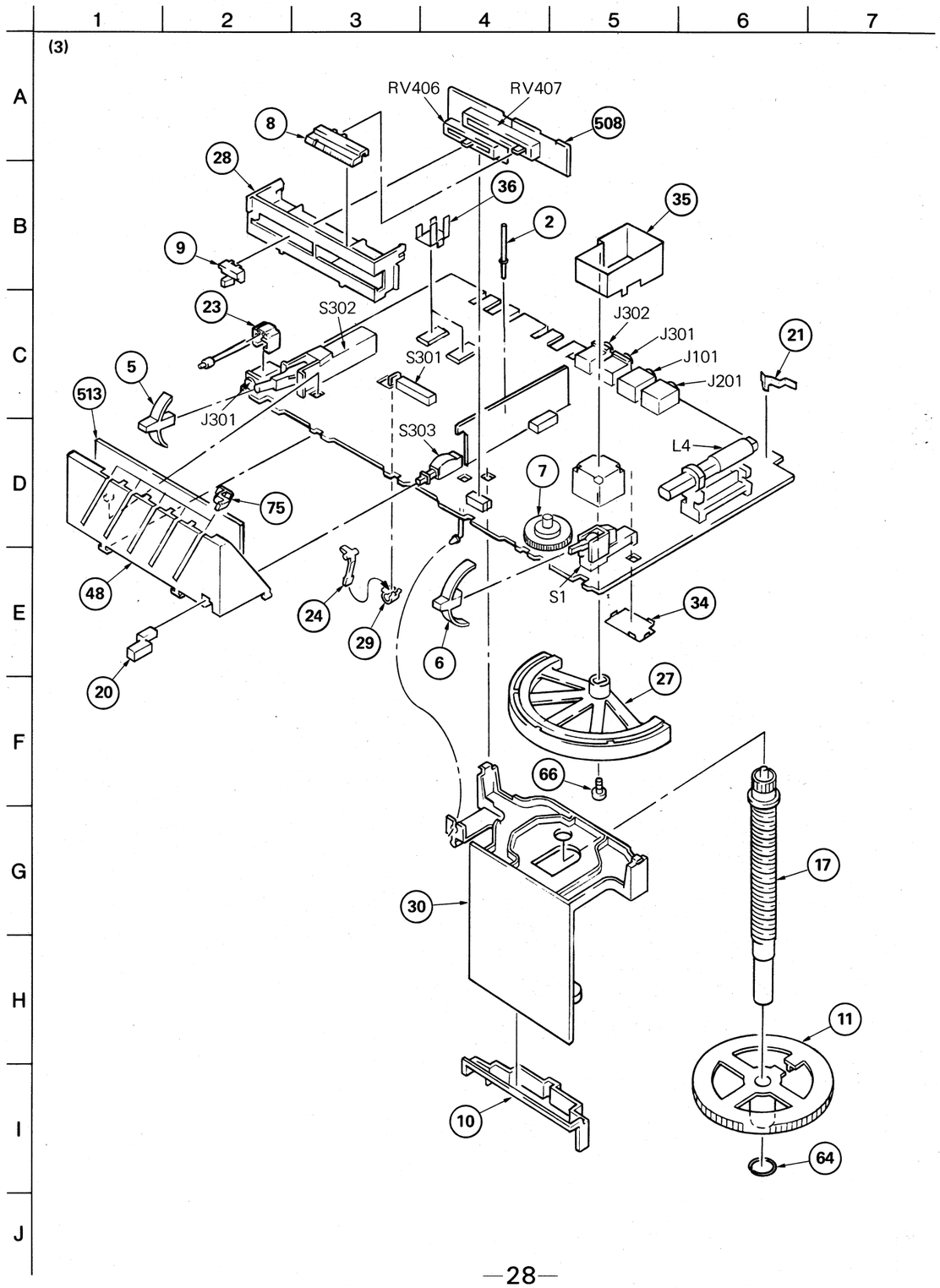
※1

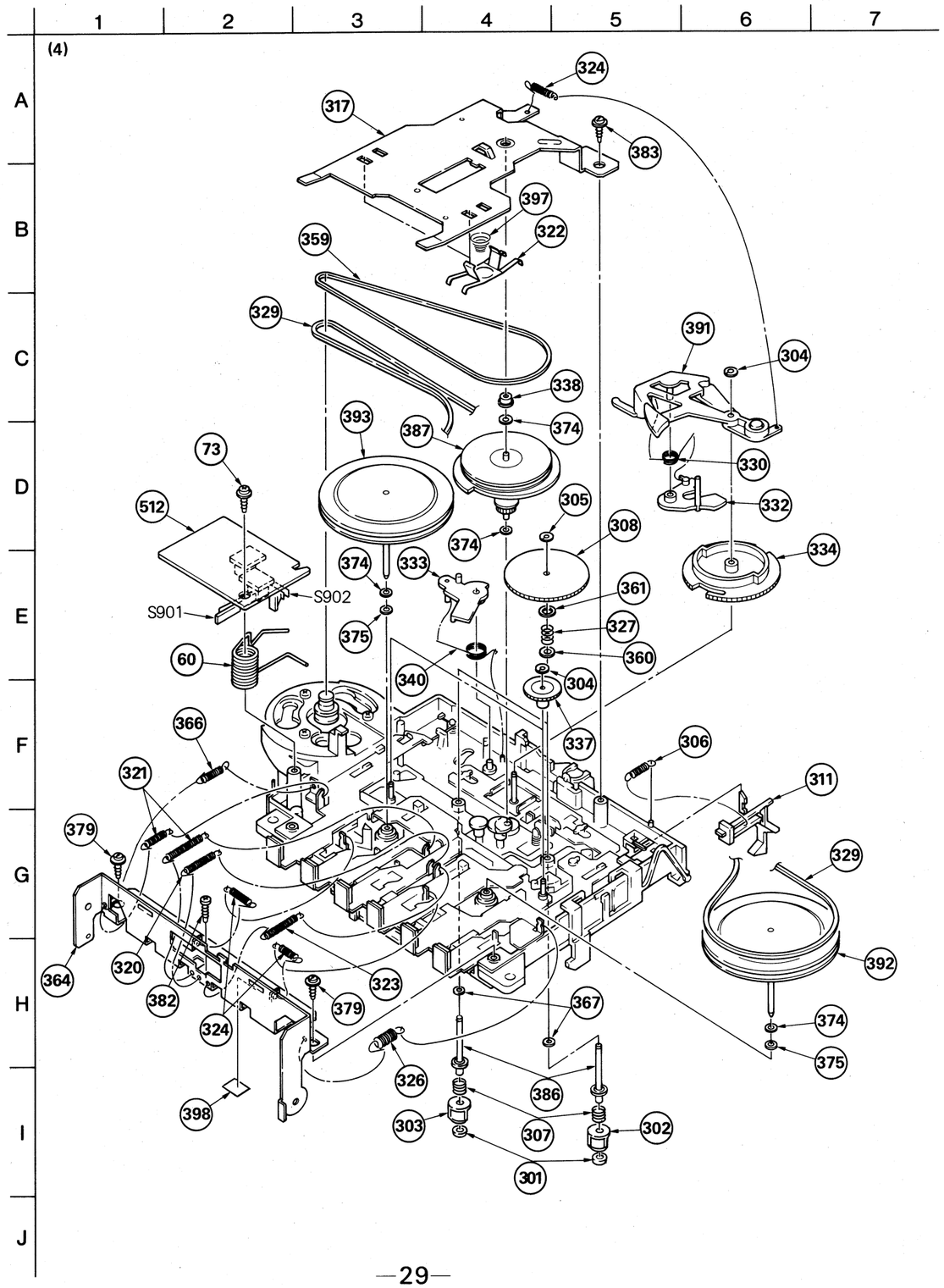


SECTION 5
EXPLODED VIEWS AND PARTS LIST




(2)
1 2 3 4 5 6 7
A B C D E F G H I J
63
38
22
62
71
69
40
511
69
69
72
41
42
43
44
39
502
F802
61
50
45
52
46
84
77
68
CNJ801
/S801
61
80
53
54
55
56
57
12
16
T801
505
15
LED
47
509
59
18
65
19
70
14


(3)
1 2 3 4 5 6 7
A B C D E F G H I J
RV406
RV407
8
508
28
36
35
2
9
23
S302
J302
J301
J101
J201
21
5
513
J301
S301
S303
L4
75
7
48
24
29
6
S1
34
20
27
66
30
17
10
11
64


(4)
1 2 3 4 5 6 7
A B C D E F G H I J
324
317
383
397
322
359
329
391
304
338
374
393
387
330
73
305
332
512
308
374
333
334
S901
S902
361
375
327
60
340
360
304
337
366
306
321
311
379
329
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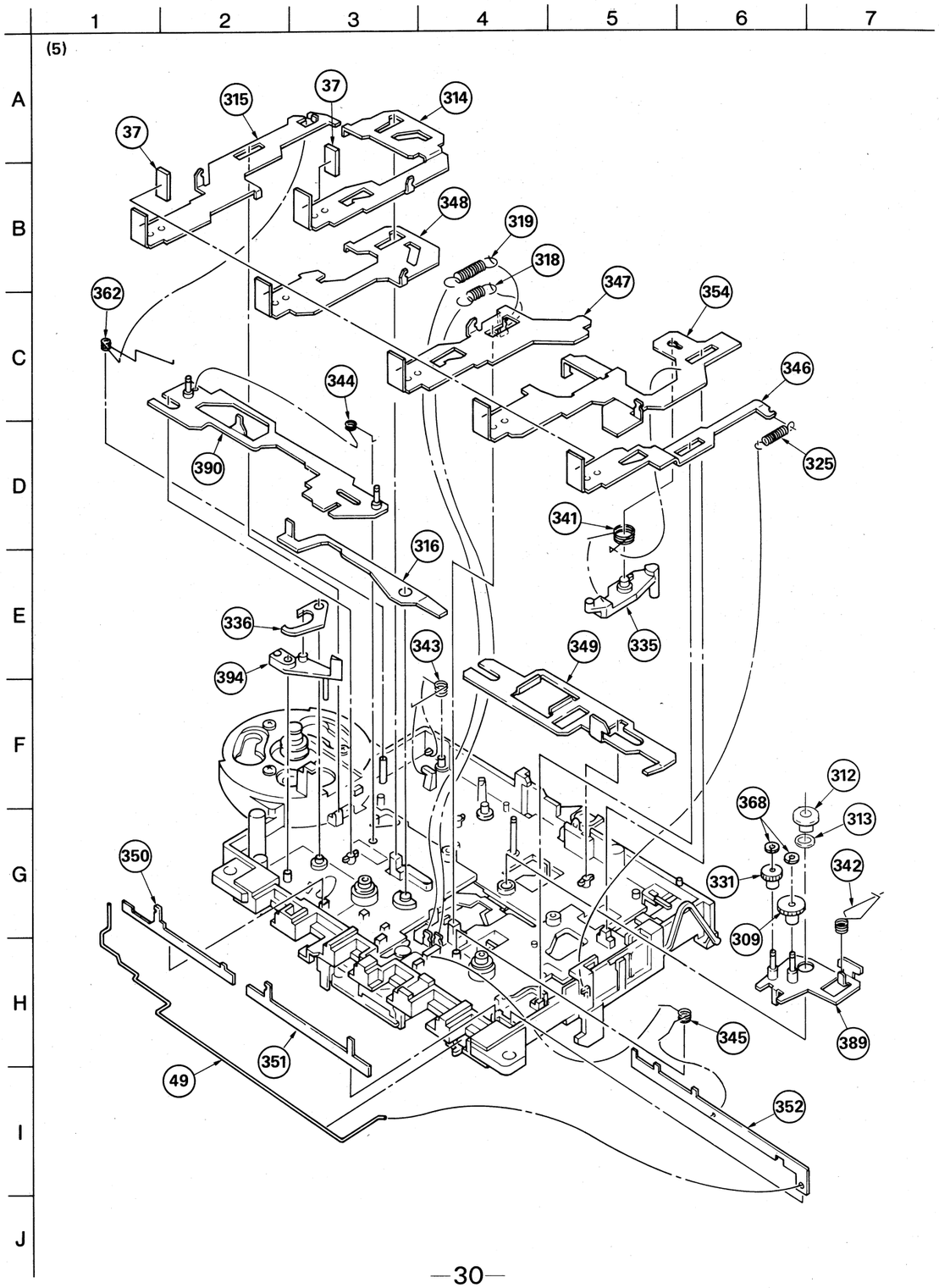
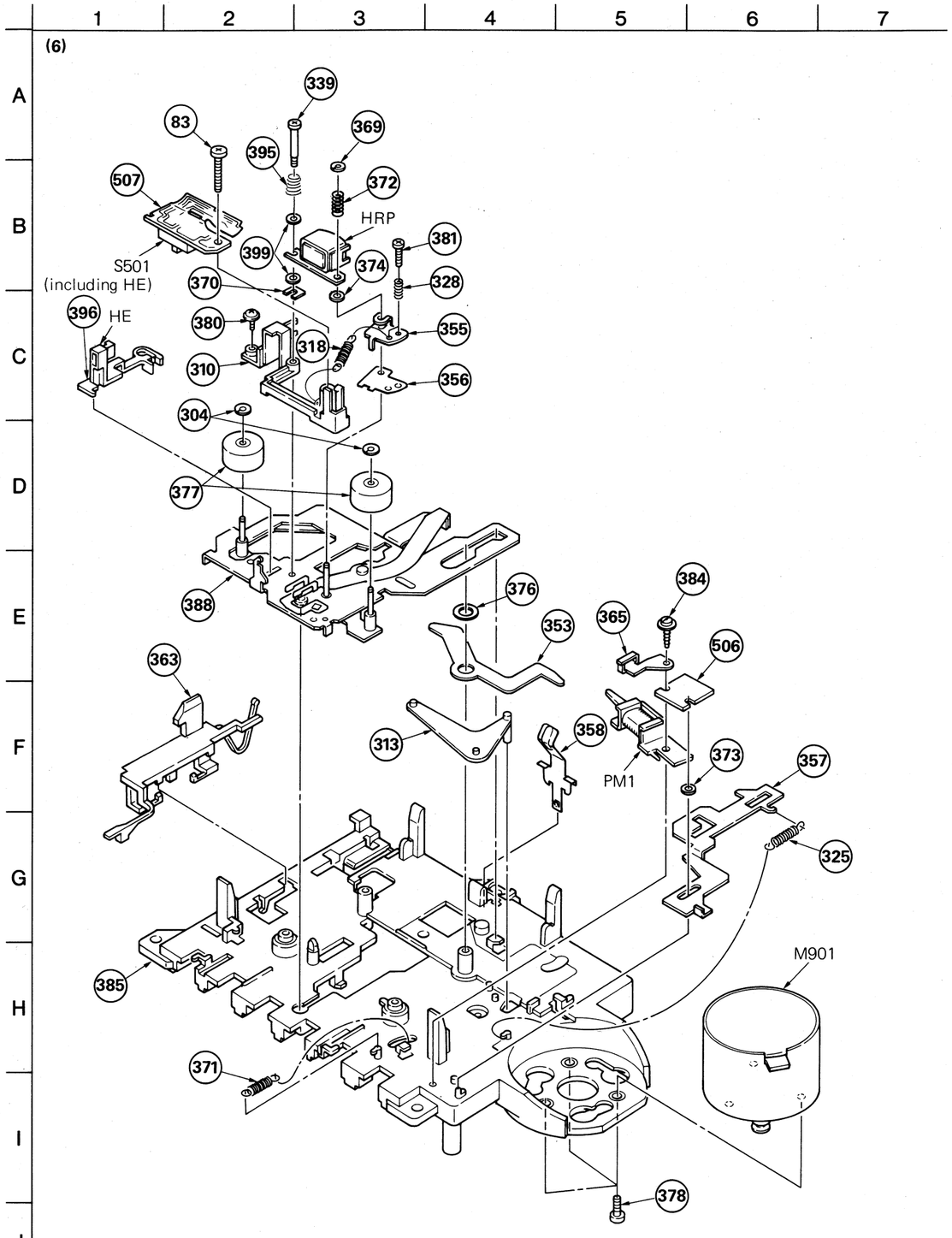
323
392
382
379
367
324
374
375
326
386
398
303
307
302
301


(5)
1 2 3 4 5 6 7
A B C D E F G H I J
315
37
314
37
348
319
318
347
354
362
344
346
390
325
341
316
336
343
349
335
394
312
368
313
350
331
342
309
345
389
49
351
352



GENERAL SECTION

No.	Part No.	Description
1	3-310-119-61	ORNAMENT, AZIMUTH ADJUSTMENT
2	.....	
3	3-319-266-01	CLAW, SPK LOCK
4	3-321-548-01	INDICATOR, DIAL
5	3-319-504-01	KNOB, FUNCTION
6	3-319-505-01	KNOB, BAND
7	3-321-544-01	KNOB, FT
8	3-319-507-01	KNOB, CONTROL
9	3-319-508-01	KNOB, BALANCER
10	3-319-510-01	POINTER
11	3-319-511-11	KNOB, TUNING
12	3-319-513-01	SHAFT, MD BUTTON
13	3-319-514-01	SPRING
14	3-319-515-01	TERMINAL, BATTERY
15	3-319-516-01	TERMINAL, PLUS
16	3-319-517-01	TERMINAL, MINUS
17	3-319-520-01	GEAR, TUNING
18	3-319-522-01	CLAMP, LEAD, SPK
19	3-319-522-11	CLAMP, LEAD, SPK
20	3-319-523-11	BUTTON, MUTE
21	*3-319-524-01	TERMINAL BOARD, ANTENNA
22	*3-319-525-01	TERMINAL BOARD, POWER
23	*3-319-526-01	HOLDER (OP), LED
24	3-319-527-01	LEVER, REC
25	3-319-528-11	HANDLE
26	3-319-529-11	LID, BATTERY CASE
27	*3-319-538-01	GEAR, TUNING CAPACITOR
28	*3-321-547-01	CHASSIS, CONTROL
29	3-319-541-01	BRACKET, REC LEVER
30	3-319-545-01	BEARING, TUNING
31	3-319-546-41	CABINET (FRONT)
32	3-319-548-11	BOX (REAR) (RIGHT), SPEAKER
33	3-319-549-11	BOX (REAR) (LEFT), SPEAKER
34	*3-319-556-01	PLATE (B), SHIELD
35	*3-321-552-01	CASE, SHIELD
36	*3-319-564-01	HEAT SINK
37	.....	
38	*3-319-940-01	PLATE, SHIELD, MOTOR
39	*3-321-502-01	BRACKET, AC INLET
40	3-321-505-01	ARM, REC
41	3-321-506-01	BUTTON, S/E
42	3-321-507-01	BUTTON, REC
43	3-321-508-01	BUTTON, PLAY
44	3-321-509-01	BUTTON, REW
45	3-321-510-01	BUTTON, FF

GENERAL SECTION

No.	Part No.	Description
46	3-321-511-01	BUTTON, PAUSE
47	*3-321-512-01	HOLDER (DR), LED
48	3-321-513-01	CHASSIS, GEQ
49	*3-321-514-11	LEVER, SWITCH, POWER
50	*3-321-517-01	PLATE, SHIELD, TRANSFORMER
51	3-321-518-01	BUTTON, DIRECTION
52	3-321-519-01	HOLDER, BUTTON, S/E
53	3-321-520-01	HOLDER, BUTTON, REC
54	3-321-521-01	HOLDER, BUTTON, PLAY
55	3-321-522-01	HOLDER, BUTTON, REW
56	3-321-523-01	HOLDER, BUTTON, FF
57	3-321-524-01	HOLDER, BUTTON, PAUSE
58	3-321-526-01	LEVER, DIRECTION
59	3-321-527-21	CABINET (REAR)
60	3-321-533-01	SPRING
61	9-911-851-XX	FELT
62	3-701-748-00	CLAMP
63	3-703-136-00	SCREW, TAPPING
64	3-885-531-00	SPRING
65	4-879-763-00	SPRING, COMPRESSION
66	7-621-259-45	(UK)....SCREW +P 2.6X6
66	7-621-770-87	(AEP)...SCREW +P 2.6X5
67	7-682-550-04	SCREW +B 3X12
68	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT
69	7-685-648-11	SCREW +BVTP 3X12 TYPE2 N-S
70	7-685-649-71	SCREW +BVTP 3X14 TYPE2 IT-3
71	7-685-650-11	SCREW +BVTP 3X16 TYPE2 N-S
72	7-685-793-04	SCREW +BVTT 2.6X8 (S)
73	7-687-233-11	SCREW (+ PTPWH) (2.6X6)
74	X-0436-615-0	HOLDER, CASSETTE
75	A-3251-074-A	KNOB ASSY, GEQ
76	A-3255-085-A	SPEAKER (FRONT) ASSY
77	X-3319-501-1	EJECT ASSY, SOFT
78	.....	
79	.....	
80	*3-321-553-01	PLATE (B), SHIELD, TRANSFORMER
81	3-321-539-11	WASHER (E)
82	3-831-441-XX	CUSHION (B), CABINET
83	7-621-772-68	SCREW (M2X12), SMALL, (+ -)
84	7-682-544-04	SCREW +P 3X3

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

REISITORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···,
UPC···: μPC,
UPD···: μPD···

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
102 ⚠	.1-551-218-00	(UK)....CORD, POWER (DK-50)
102 ⚠	.1-555-234-00	(AEP)...CORD, POWER
103	3-321-550-01	INDIVIDUAL CARTON
104	3-319-551-01	CUSHION (UPPER)
105	3-319-552-01	CUSHION (INNER)
106	3-319-553-01	CUSHION (LOWER)
107	3-319-567-01	SHEET, PROTECTION
108	3-527-213-00	LABEL, SERIAL NUMBER
109	3-701-632-00	BAG, POLYETHYLENE
110	3-703-707-01	STICKER, SONY SYMBOL (21)
111	3-760-049-11	MANUAL, INSTRUCTION
112	3-321-542-01	(UK)....LABEL, MODEL NUMBER
112	3-321-543-01	(AEP)...LABEL, MODEL NUMBER
113	3-701-690-00	(UK)....LABEL (MADE IN JAPAN)

MECHANISM SECTION

No.	Part No.	Description
301	3-307-362-00	CAP, REEL
302	3-307-363-00	CLAW (N), REEL
303	3-307-447-00	CLAW (R), REEL
304	3-307-948-01	WASHER, NYLON
305	.....	
306	3-313-384-01	SPRING, TENSION
307	3-321-531-01	SPRING, COMPRESSION
308	3-322-508-01	GEAR, REEL
309	3-322-509-01	GEAR (A), FWD
310	3-322-510-01	GUIDE, EBF
311	3-322-511-01	CLAW, ERASING PROTECTION
312	3-322-513-01	COLLAR
313	3-322-514-01	LINK (A)
314	*3-322-515-21	LEVER, REW BUTTON
315	*3-322-516-21	LEVER, PAUSE BUTTON

MECHANISM SECTION

No.	Part No.	Description
316	*3-322-517-01	LEVER, AMS
317	*3-322-519-01	RETAINER, THRUST
318	3-322-520-01	SPRING, TENSION
319	3-322-673-01	SPRING, TENSION
320	3-322-522-01	SPRING, TENSION
321	3-322-523-01	SPRING, TENSION
322	3-322-524-01	SPRING
323	3-322-526-01	SPRING, TENSION(POWER TENSION)
324	3-322-527-01	SPRING, TENSION
325	3-322-528-01	SPRING, TENSION
326	3-322-529-01	SPRING, TENSION
327	3-321-541-01	SPRING, COMPRESSION
328	3-322-531-01	SPRING, COMPRESSION
329	3-322-533-01	BELT
330	3-322-534-01	SPRING
331	3-322-550-01	GEAR (B), FWD
332	3-322-551-01	LEVER (A), OA
333	3-322-552-01	LEVER, GEAR LOCK
334	3-322-553-01	GEAR, CAM
335	3-322-554-01	ARM, REC LOCK
336	3-322-555-01	LEVER (E), S.OFF
337	3-322-556-01	GEAR, FR
338	3-322-566-01	BEARING, PULLEY
339	3-322-567-01	SCREW, PAN, STEP
340	3-322-574-01	SPRING
341	3-322-575-01	SPRING
342	3-322-576-01	SPRING
343	3-322-577-01	SPRING
344	3-322-578-01	SPRING
345	3-322-579-01	SPRING
346	*3-322-583-21	LEVER, STOP BUTTON
347	*3-322-584-21	LEVER, PLAY BUTTON
348	*3-322-585-21	LEVER, FF BUTTON
349	*3-322-586-01	LEVER, DIRECTION
350	*3-322-587-01	PLATE (B), LOCK
351	*3-322-588-01	PLATE (A), LOCK
352	*3-322-589-01	LEVER, SWITCH
353	*3-322-590-01	LEVER, DIRECTION RELEASE
354	*3-322-591-21	LEVER, REC BUTTON
355	3-322-592-01	LEVER, AZIMUTH
356	3-322-593-01	PLATE, AZIMUTH
357	*3-322-594-01	LEVER, MANUAL BUTTON
358	3-322-595-01	SPRING
359	3-434-110-XX	BELT, COUNTER
360	3-322-659-01	WASHER (A)

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CFS-5000L

MECHANISM SECTION

No.	Part No.	Description
361	3-322-660-01	WASHER (B)
362	3-322-667-01	SPRING
363	3-322-701-01	LEVER (B), EJECT
364	*3-322-702-01	RETAINER (B), LEVER
365	*3-322-704-01	GUIDE, WIRING
366	3-530-260-00	SPRING, TENSION
367	3-545-715-00	WASHER
368	3-570-615-00	POLY-WASHER (DIA.1.2)
369	3-570-615-11	POLY-WASHER (DIA.1.2)
370	3-573-466-01	SPACER, HEAD (t=0.1)
370	3-573-466-11	SPACER, HEAD (t=0.2)
371	3-573-468-00	SPRING, TENSION
372	3-579-759-00	SPRING, COMPRESSION
373	3-701-437-01	WASHER
374	3-701-437-11	WASHER
375	3-701-437-21	WASHER
376	3-701-443-01	WASHER, 5 (t=0.13)
377	3-703-597-41	PINCH ROLLER, STANDARD
378	7-621-770-87	SCREW +P 2.6X5
379	7-687-233-11	SCREW, TOTSU PTPWH 2.6X6, TYPE2
380	7-621-955-35	SCREW, TOTSU PWH 2X5
381	7-627-851-27	SCREW, PRECISION +P 1.4X5
382	7-685-105-14	TPG +P 2X8, TYPE 2, NON-SLIT
383	7-685-134-14	SCREW, TOTSU PTPWH 2.6X8, TYPE2
384	7-687-205-11	TOTSU PTPWH 2X8, TYPE2, SLIT
385	A-3102-061-A	CHASSIS ASSY, MECHANICAL
386	X-3321-501-1	BUSHING ASSY, REEL TABLE
387	X-3322-501-1	DETECTION BLOCK ASSY
388	X-3322-503-1	CHASSIS ASSY, HEAD
389	*X-3322-504-1	ARM ASSY, FWD GEAR
390	*X-3322-505-1	LEVER ASSY, FR
391	X-3322-506-1	LEVER (B) ASSY, OA
392	X-3322-507-1	FLYWHEEL (R) ASSY
393	X-3322-508-1	FLYWHEEL (N) ASSY
394	X-3322-509-1	LEVER (D) ASSY, S.OFF
395	3-318-106-01	SPRING (H), COMPRESSION
396	A-3114-042-A	ARM ASSY, EBF
397	3-322-676-01	SPRING (S), COMPRESSION
398	3-831-441-XX	CUSHION
399	7-688-001-03	W, SMALL WASHER 2

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
502	*1-533-131-00	HOLDER, FUSE			
504	1-557-463-11	CORD, SPEAKER			
505	1-595-078-41	PC BOARD, POWER COMBINED			
506	*1-602-735-00	PC BOARD			
507	1-614-798-11	PC BOARD, HEAD CHANGE SWITCH			
508	*1-615-631-11	PC BOARD, VOLUME			
509	1-613-741-11	PC BOARD, LED			
510	1-615-633-11	(UK)....PC BOARD, TRANSFORMER, POWER			
510	1-615-635-11	(AEP)...PC BOARD, TRANSFORMER, POWER			
511	1-615-634-11	(UK)....PC BOARD, BATT			
511	1-615-636-11	(AEP)...PC BOARD, BATT			
512	*1-613-746-11	PC BOARD, LEAF SWITCH			
513	*1-613-751-11	PC BOARD, CARBON RESISTOR			
514	*A-3270-231-A	MOUNTED PCB, MAIN			
515	*A-3270-229-A	MOUNTED PCB, GEQ			
ANT901	1-501-306-11	ANTENNA, TELESCOPIC			
C1	1-162-216-31	CERAMIC	51PF	5%	50V
C2	1-102-516-00	CERAMIC	27PF	5%	50V
C3	1-162-294-31	CERAMIC	0.001MF	10%	50V
C4	1-161-013-00	CERAMIC	0.01MF	20%	25V
C5	1-102-515-00	CERAMIC	24PF	5%	50V
C6	1-161-013-00	CERAMIC	0.01MF	20%	25V
C7	1-161-013-00	CERAMIC	0.01MF	20%	25V
C8	1-102-515-00	CERAMIC	24PF	5%	50V
C9	1-162-196-31	CERAMIC	5.6PF	10%	50V
C10	1-162-225-11	CERAMIC	2.7PF	10%	50V
C11	1-162-193-31	CERAMIC	3.3PF	10%	50V
C12	1-161-013-00	CERAMIC	0.01MF	20%	25V
C13	1-101-004-00	CERAMIC	0.01MF		50V
C14	1-162-198-31	CERAMIC	8.2PF	10%	50V
C15	1-162-199-31	CERAMIC	10PF	5%	50V
C16	1-102-972-00	CERAMIC	91PF	5%	50V
C17	1-161-055-00	CERAMIC	0.022MF	20%	25V
C18	1-104-067-00	POLYSTYRENE	390PF	5%	50V
C19	1-103-740-00	POLYSTYRENE	0.0043MF	5%	50V
C20	1-162-199-31	CERAMIC	10PF	5%	50V
C21	1-162-238-11	CERAMIC	18PF	5%	50V
C22	1-102-980-00	CERAMIC	270PF	5%	50V
C23	1-161-059-00	CERAMIC	0.047MF	20%	25V
C24	1-101-004-00	CERAMIC	0.01MF		50V
C25	1-101-004-00	CERAMIC	0.01MF		50V
C26	1-123-306-00	ELECT	47MF	20%	10V
C27	1-161-055-00	CERAMIC	0.022MF	20%	25V
C28	1-161-055-00	CERAMIC	0.022MF	20%	25V
C29	1-161-059-00	CERAMIC	0.047MF	20%	25V
C30	1-123-356-00	ELECT	10MF	20%	16V

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In each case, U : μ, for example:
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UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C31	1-161-059-00	CERAMIC	0.047MF	20%	25V
C32	1-161-055-00	CERAMIC	0.022MF	20%	25V
C33	1-123-356-00	ELECT	10MF	20%	16V
C34	1-101-880-00	CERAMIC	47PF	5%	50V
C35	1-102-106-00	CERAMIC	100PF	10%	50V
C36	1-161-053-00	CERAMIC	0.015MF	20%	25V
C37	1-161-053-00	CERAMIC	0.015MF	20%	25V
C38	1-102-106-00	CERAMIC	100PF	10%	50V
C39	1-123-308-00	ELECT	220MF	20%	10V
C40	1-123-379-00	ELECT	0.47MF	20%	50V
C41	1-123-379-00	ELECT	0.47MF	20%	50V
C42	1-123-380-00	ELECT	1MF	20%	50V
C43	1-123-382-00	ELECT	3.3MF	20%	50V
C44	1-123-307-00	ELECT	100MF	20%	10V
C45	1-161-938-00	CERAMIC	0.001MF	5%	50V
C46	1-101-004-00	CERAMIC	0.01MF		50V
C47	1-123-380-00	ELECT	1MF	20%	50V
C48	1-161-055-00	CERAMIC	0.022MF	20%	25V
C49	1-161-055-00	CERAMIC	0.022MF	20%	25V
C50	1-103-711-00	POLYSTYRENE	270PF	5%	50V
C55	1-162-282-31	CERAMIC	100PF	10%	50V
C101	1-123-382-00	ELECT	3.3MF	20%	50V
C102	1-102-112-00	CERAMIC	330PF	10%	50V
C103	1-102-115-00	CERAMIC	560PF	10%	50V
C104	1-101-884-00	CERAMIC	56PF	5%	50V
C105	1-123-307-00	ELECT	100MF	20%	10V
C106	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C107	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C108	1-123-356-00	ELECT	10MF	20%	16V
C109	1-161-044-00	CERAMIC	0.0027MF	10%	25V
C110	1-123-380-00	ELECT	1MF	20%	50V
C111	1-123-306-00	ELECT	47MF	20%	10V
C112	1-123-382-00	ELECT	3.3MF	20%	50V
C113	1-123-379-00	ELECT	0.47MF	20%	50V
C114	1-162-294-31	CERAMIC	0.001MF	10%	50V
C115	1-123-356-00	ELECT	10MF	20%	16V
C116	1-123-356-00	ELECT	10MF	20%	16V
C117	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C118	1-123-307-00	ELECT	100MF	20%	10V
C119	1-123-307-00	ELECT	100MF	20%	10V
C120	1-124-142-00	ELECT	470MF	20%	10V
C121	1-123-307-00	ELECT	100MF	20%	10V
C122	1-123-307-00	ELECT	100MF	20%	10V
C123	1-131-346-00	ELECT(SOLID)	0.68MF	20%	25V
C124	1-131-346-00	ELECT(SOLID)	0.68MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C125	1-123-382-00	ELECT	3.3MF	20%	50V
C126	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C127	1-162-294-31	CERAMIC	0.001MF	10%	50V
C128	1-131-344-00	ELECT(SOLID)	0.33MF	20%	25V
C151	1-161-058-00	CERAMIC	0.039MF	10%	25V
C152	1-123-902-00	ELECT	0.68MF	20%	50V
C153	1-161-052-00	CERAMIC	0.012MF	10%	25V
C154	1-123-608-00	ELECT	0.22MF	20%	50V
C155	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C156	1-161-023-00	CERAMIC	0.068MF	10%	25V
C157	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C158	1-161-055-00	CERAMIC	0.022MF	10%	25V
C159	1-102-114-00	CERAMIC	470PF	10%	50V
C160	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C161	1-162-294-31	CERAMIC	0.001MF	10%	50V
C162	1-123-330-00	ELECT	22MF	20%	16V
C163	1-102-106-00	CERAMIC	100PF	10%	50V
C201	1-123-382-00	ELECT	3.3MF	20%	50V
C202	1-102-112-00	CERAMIC	330PF	10%	50V
C203	1-102-115-00	CERAMIC	560PF	10%	50V
C204	1-101-884-00	CERAMIC	56PF	5%	50V
C205	1-123-307-00	ELECT	100MF	20%	10V
C206	1-161-049-00	CERAMIC	0.0068MF	10%	25V
C207	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C208	1-123-356-00	ELECT	10MF	20%	16V
C209	1-161-044-00	CERAMIC	0.0027MF	10%	25V
C210	1-123-380-00	ELECT	1MF	20%	50V
C211	1-123-306-00	ELECT	47MF	20%	10V
C212	1-123-382-00	ELECT	3.3MF	20%	50V
C213	1-123-379-00	ELECT	0.47MF	20%	50V
C214	1-162-294-31	CERAMIC	0.001MF	10%	50V
C215	1-123-356-00	ELECT	10MF	20%	16V
C216	1-123-356-00	ELECT	10MF	20%	16V
C217	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C218	1-123-307-00	ELECT	100MF	20%	10V
C219	1-123-307-00	ELECT	100MF	20%	10V
C220	1-124-142-00	ELECT	470MF	20%	10V
C221	1-123-307-00	ELECT	100MF	20%	10V
C222	1-123-307-00	ELECT	100MF	20%	10V
C223	1-131-346-00	ELECT(SOLID)	0.68MF	20%	25V
C224	1-131-346-00	ELECT(SOLID)	0.68MF	20%	25V
C225	1-123-382-00	ELECT	3.3MF	20%	50V
C226	1-161-043-00	CERAMIC	0.0022MF	10%	25V
C227	1-162-294-31	CERAMIC	0.001MF	10%	50V
C228	1-131-344-00	ELECT(SOLID)	0.33MF	20%	25V

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UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C251	1-161-058-00	CERAMIC	0.039MF	10%	25V
C252	1-123-902-00	ELECT	0.68MF	20%	50V
C253	1-161-052-00	CERAMIC	0.012MF	10%	25V
C254	1-123-608-00	ELECT	0.22MF	20%	50V
C255	1-161-046-00	CERAMIC	0.0039MF	10%	25V
C256	1-161-023-00	CERAMIC	0.068MF	10%	25V
C257	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C258	1-161-055-00	CERAMIC	0.022MF	10%	25V
C259	1-102-114-00	CERAMIC	470PF	10%	50V
C260	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C261	1-162-294-31	CERAMIC	0.001MF	10%	50V
C262	1-123-330-00	ELECT	22MF	20%	16V
C263	1-102-106-00	CERAMIC	100PF	10%	50V
C301	1-123-307-00	ELECT	100MF	20%	10V
C302	1-123-330-00	ELECT	22MF	20%	16V
C303	1-123-333-00	ELECT	100MF	20%	16V
C304	1-123-323-00	ELECT	470MF	20%	16V
C305	1-123-306-00	ELECT	47MF	20%	10V
C306	1-123-308-00	ELECT	220MF	20%	10V
C307	1-123-321-00	ELECT	220MF	20%	16V
C308	1-136-169-00	FILM	0.22MF	5%	50V
C309	1-108-383-00	MYLAR	0.033MF	10%	100V
C310	1-108-352-00	MYLAR	0.0018MF	10%	50V
C311	1-123-307-00	ELECT	100MF	20%	10V
C312	1-136-167-00	FILM	0.15MF	5%	50V
C313	1-161-059-00	CERAMIC	0.047MF	10%	25V
C314	1-161-058-00	CERAMIC	0.039MF	10%	25V
C315	1-123-379-00	ELECT	0.47MF	20%	50V
C316	1-123-380-00	ELECT	1MF	20%	50V
C317	1-123-356-00	ELECT	10MF	20%	16V
C318	1-123-318-00	ELECT	33MF	20%	16V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-123-308-00	ELECT	220MF	20%	10V
C321	1-162-282-31	CERAMIC	100PF	10%	50V
C322	1-162-282-31	CERAMIC	100PF	10%	50V
C323	1-123-332-00	ELECT	47MF	20%	16V
C324	1-123-322-00	ELECT	330MF	20%	16V
C325	1-162-306-31	CERAMIC	0.01MF	30%	16V
C326	1-162-282-31	CERAMIC	100PF	10%	50V
C327	1-162-306-31	CERAMIC	0.01MF	30%	16V
C328	1-123-321-00	ELECT	220MF	20%	16V
C329	1-162-282-31	CERAMIC	100PF	10%	50V
C330	1-123-306-00	ELECT	47MF	20%	10V
C331	1-161-039-00	CERAMIC	0.001MF	10%	25V
C332	1-106-196-00	MYLAR	0.01MF	10%	100V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C333	1-106-194-00	MYLAR	0.0082MF	10%	100V
C335	1-123-307-00	CAP, ELECT	100MF		10V
C336	1-162-282-31	CERAMIC	100PF	10%	50V
C351	1-123-306-00	ELECT	47MF	20%	10V
C352	1-102-106-00	CERAMIC	100PF	10%	50V
C801	1-161-494-00	CERAMIC	0.022MF	30%	25V
C802	1-161-494-00	CERAMIC	0.022MF	30%	25V
C803	1-161-494-00	CERAMIC	0.022MF	30%	25V
C804	1-123-327-00	ELECT	4700MF	20%	16V
CF1	1-527-958-91	FILTER, CERAMIC			
CF2	1-527-865-00	FILTER, CERAMIC			
⚠CNJ801	1-561-403-00	CONNECTOR, POWER			
CNP1	1-508-913-00	PIN, CONNECTOR, 4P			
CNP2	*1-508-758-00	U TYPE PIN CONNECTOR			
CNP3	*1-564-581-11	PLUG (L TYPE) 6P			
CNP4	*1-564-348-00	PLUG (L TYPE) 5P			
CT1	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CT2	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CT3	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CT4	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CT5	1-141-179-12	CAP, TRIMMER 10PF			
CT6	1-141-181-11	CAP, TRIMMER 30PF			
CT7	1-141-179-12	CAP, TRIMMER 10PF			
CT8	1-141-181-11	CAP, TRIMMER 30PF			
CT9	1-141-324-11	CAP, TRIMMER 1.5PF (SW FINE)			
CV1	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CV2	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CV3	1-151-387-00	CAP, TUNING, POLYETHYLENE			
CV4	1-151-387-00	CAP, TUNING, POLYETHYLENE			
D2	8-719-815-55	DIODE 1S1555			
D3	8-719-815-55	DIODE 1S1555			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D301	8-719-100-41	DIODE RD6.8EB2T			
D302	8-719-907-31	DIODE SLP146B (OPR/BATT)			
D304	8-719-903-39	DIODE SLP135B-55 (FWD)			
D305	8-719-903-39	DIODE SLP135B-55 (REV)			
D303	8-719-903-39	DIODE SLP135B-55 (FM STEREO)			
D801	⚠8-719-200-63	DIODE 20E2HTA2			
D802	⚠8-719-200-63	DIODE 20E2HTA2			
D803	⚠8-719-200-63	DIODE 20E2HTA2			
D804	⚠8-719-200-63	DIODE 20E2HTA2			

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In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
F802	⚠1-532-203-00	FUSE, TIME-LAG T-2A
HE	A-3114-042-A	EBF 258-36 (including No 396)
HRP	8-825-537-62	HEAD, REC/PB (PP238-3604E)
IC1	8-759-801-24	IC LA1260S
IC2	8-759-203-87	IC TA7343AP
IC101	8-759-801-23	IC LA3600
IC102	8-759-801-18	IC LA4182
IC201	8-759-801-23	IC LA3600
IC202	8-759-801-18	IC LA4182
IC301	8-759-202-62	IC TA7668AP
IC302	8-759-800-71	IC LA2010
J101	1-507-777-00	JACK, SMALL TYPE (EXT MIC L)
J201	1-507-777-00	JACK, SMALL TYPE (EXT MIC R)
J301	1-507-967-11	JACK (LINE IN)
J302	1-507-967-11	JACK (LINE OUT)
J303	1-507-948-11	JACK (HEADPHONES)
L1	*1-422-182-11	COIL, AIR-CORE (FM,BPF)
L2	*1-422-186-11	COIL, AIR-CORE (FM RF)
L3	*1-422-175-11	COIL, AIR-CORE (FM OSC)
L4	1-402-103-21	COIL, ANT (SW)
L5	1-402-157-11	ANTENNA, FERRITE-ROD (LW/MW)
L6	1-402-157-11	ANTENNA, FERRITE-ROD (LW/MW)
L7	1-406-105-21	COIL, OSC (SW)
L8	1-406-059-31	COIL, OSC (MW)
L9	1-406-104-21	COIL, OSC (LW)
L10	*1-401-495-11	LOADING ANTENNA COIL 4.7UH
L101	1-459-567-11	COIL (WITH CORE) 10UH
L201	1-459-567-11	COIL (WITH CORE) 10UH
L301	1-407-484-00	MICRO INDUCTOR 3.3UH
M901	A-3133-210-A	MOTOR ASSY
PM1	1-454-355-00	SOLENOID, PLUNGER
PS901	⚠1-532-679-00	LINK, IC
PS902	⚠1-532-679-00	LINK, IC
Q1	8-729-806-84	TRANSISTOR 2SC668-SP
Q2	8-729-266-62	TRANSISTOR 2SC2668-O
Q3	8-729-883-92	TRANSISTOR 2SC2839
Q101	8-729-245-83	TRANSISTOR 2SC2458
Q102	8-729-245-83	TRANSISTOR 2SC2458
Q201	8-729-245-83	TRANSISTOR 2SC2458
Q202	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-281-53	TRANSISTOR 2SC1815-GR
Q303	8-729-811-24	TRANSISTOR 2SD1012-G

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q304	8-729-117-54	TRANSISTOR 2SA1175			
Q305	8-729-245-83	TRANSISTOR 2SC2458			
Q306	8-729-245-83	TRANSISTOR 2SC2458			
R1	1-247-819-00	CARBON	330	5%	1/6W
R2	1-247-819-00	CARBON	330	5%	1/6W
R3	1-247-886-00	CARBON	200K	5%	1/6W
R4	1-247-841-00	CARBON	2.7K	5%	1/6W
R5	1-247-837-00	CARBON	1.8K	5%	1/6W
R6	1-247-845-00	CARBON	3.9K	5%	1/6W
R7	1-247-862-00	CARBON	20K	5%	1/6W
R8	1-247-799-00	CARBON	47	5%	1/6W
R9	1-247-799-00	CARBON	47	5%	1/6W
R10	1-247-889-00	CARBON	270K	5%	1/6W
R11	1-247-831-00	CARBON	1K	5%	1/6W
R13	1-247-795-00	CARBON	33	5%	1/6W
R14	1-247-881-00	CARBON	120K	5%	1/6W
R17	1-247-849-00	CARBON	5.6K	5%	1/6W
R18	1-247-819-00	CARBON	330	5%	1/6W
R19	1-247-795-00	CARBON	33	5%	1/6W
R20	1-247-849-00	CARBON	5.6K	5%	1/6W
R21	1-247-845-00	CARBON	3.9K	5%	1/6W
R22	1-247-783-00	CARBON	10	5%	1/6W
R23	1-247-859-00	CARBON	15K	5%	1/6W
R24	1-247-835-00	CARBON	1.5K	5%	1/6W
R25	1-247-838-00	CARBON	2K	5%	1/6W
R26	1-247-843-00	CARBON	3.3K	5%	1/6W
R27	1-247-795-00	CARBON	33	5%	1/6W
R28	1-247-831-00	CARBON	1K	5%	1/6W
R29	1-247-855-00	CARBON	10K	5%	1/6W
R30	1-247-829-00	CARBON	820	5%	1/6W
R31	1-247-887-00	CARBON	220K	5%	1/6W
R32	1-247-843-00	CARBON	3.3K	5%	1/6W
R33	1-247-843-00	CARBON	3.3K	5%	1/6W
R34	1-247-882-00	CARBON	130K	5%	1/6W
R35	1-247-882-00	CARBON	130K	5%	1/6W
R36	1-247-869-00	CARBON	39K	5%	1/6W
R37	1-247-869-00	CARBON	39K	5%	1/6W
R38	1-247-819-00	CARBON	330	5%	1/6W
R39	1-247-819-00	CARBON	330	5%	1/6W
R101	1-247-871-00	CARBON	47K	5%	1/6W
R102	1-247-807-00	CARBON	100	5%	1/6W
R103	1-247-839-00	CARBON	2.2K	5%	1/6W
R104	1-247-868-00	CARBON	36K	5%	1/6W
R105	1-247-814-00	CARBON	200	5%	1/6W
R106	1-247-809-00	CARBON	120	5%	1/6W
R107	1-247-858-00	CARBON	13K	5%	1/6W

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Ref.No.	Part No.	Description			
R108	1-247-839-00	CARBON	2.2K	5%	1/6W
R109	1-247-847-00	CARBON	4.7K	5%	1/6W
R110	1-247-879-00	CARBON	100K	5%	1/6W
R111	1-247-855-00	CARBON	10K	5%	1/6W
R112	1-247-859-00	CARBON	15K	5%	1/6W
R113	1-247-847-00	CARBON	4.7K	5%	1/6W
R114	1-247-895-00	CARBON	470K	5%	1/6W
R115	1-247-851-00	CARBON	6.8K	5%	1/6W
R116	1-247-815-00	CARBON	220	5%	1/6W
R117	1-247-839-00	CARBON	2.2K	5%	1/6W
R118	1-247-847-00	CARBON	4.7K	5%	1/6W
R119	1-247-807-00	CARBON	100	5%	1/6W
R120	1-247-871-00	CARBON	47K	5%	1/6W
R201	1-247-871-00	CARBON	47K	5%	1/6W
R202	1-247-807-00	CARBON	100	5%	1/6W
R203	1-247-839-00	CARBON	2.2K	5%	1/6W
R204	1-247-868-00	CARBON	36K	5%	1/6W
R205	1-247-814-00	CARBON	200	5%	1/6W
R206	1-247-809-00	CARBON	120	5%	1/6W
R207	1-247-858-00	CARBON	13K	5%	1/6W
R208	1-247-839-00	CARBON	2.2K	5%	1/6W
R209	1-247-847-00	CARBON	4.7K	5%	1/6W
R210	1-247-879-00	CARBON	100K	5%	1/6W
R211	1-247-855-00	CARBON	10K	5%	1/6W
R212	1-247-859-00	CARBON	15K	5%	1/6W
R213	1-247-847-00	CARBON	4.7K	5%	1/6W
R214	1-247-895-00	CARBON	470K	5%	1/6W
R215	1-247-851-00	CARBON	6.8K	5%	1/6W
R216	1-247-815-00	CARBON	220	5%	1/6W
R217	1-247-839-00	CARBON	2.2K	5%	1/6W
R218	1-247-847-00	CARBON	4.7K	5%	1/6W
R219	1-247-807-00	CARBON	100	5%	1/6W
R220	1-247-871-00	CARBON	47K	5%	1/6W
R301	1-247-903-00	CARBON	1M	5%	1/6W
R302	1-247-831-00	CARBON	1K	5%	1/6W
R303	1-247-849-00	CARBON	5.6K	5%	1/6W
R304	1-247-843-00	CARBON	3.3K	5%	1/6W
R305	1-247-843-00	CARBON	3.3K	5%	1/6W
R306	1-247-813-00	CARBON	180	5%	1/6W
R307	1-247-825-00	CARBON	560	5%	1/6W
R308	1-247-830-00	CARBON	910	5%	1/6W
R309	1-247-819-00	CARBON	330	5%	1/6W
R310	1-247-831-00	CARBON	1K	5%	1/6W
R311	1-247-823-00	CARBON	470	5%	1/6W
R312	1-247-783-00	CARBON	10	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R313	1-247-871-00	CARBON	47K	5%	1/6W
R314	1-247-776-00	CARBON	5.1	5%	1/6W
R315	1-247-794-00	CARBON	30	5%	1/6W
R316	1-247-804-00	CARBON	75	5%	1/6W
R317	1-247-831-00	CARBON	1K	5%	1/6W
R318	1-247-879-00	CARBON	100K	5%	1/6W
R319	1-247-811-00	CARBON	150	5%	1/6W
R320	1-247-871-00	CARBON	47K	5%	1/6W
R321	1-247-813-00	CARBON	180	5%	1/6W
R322	1-247-855-00	CARBON	10K	5%	1/6W
R323	1-247-819-00	CARBON	330	5%	1/6W
R324	1-247-897-00	CARBON	560K	5%	1/6W
R325	1-247-833-00	CARBON	1.2K	5%	1/6W
R901	1-247-819-00	CARBON	330	5%	1/6W
R902	1-247-830-00	CARBON	910	5%	1/6W
RV1	1-226-235-00	RES, ADJ, CARBON 5K			
RV406	1-230-470-11	RES, VAR, SLIDE 100K (BALANCE)			
RV407	1-230-393-11	RES, VAR, SLIDE 20K/20K (VOLUME)			
S1	1-554-916-21	SWITCH, LEVER SLIDE (BAND SELECT)			
S301	1-554-867-11	SWITCH, SLIDE (REC/PB)			
S302	1-570-011-11	SWITCH, LEVER SLIDE (FUNCTION)			
S303	1-554-491-00	SWITCH, PUSH (1 KEY)(REC MUTE)			
S304	1-554-061-00	SWITCH, SLIDE (ISS)			
S501	1-570-018-11	SWITCH, SLIDE (DIRECTION)			
S901	1-570-013-11	SWITCH, LEAF (TAPE B+)			
S902	1-570-012-11	SWITCH, LEAF (AMS B+)			
SP101	1-503-394-11	SPEAKER (LEFT)			
SP102	1-529-026-11	BUZZER (LEFT)			
SP201	1-503-394-11	SPEAKER (RIGHT)			
SP202	1-529-026-11	BUZZER (RIGHT)			
T1	1-403-872-00	TRANSFORMER, FM IF			
T2	1-404-249-00	COIL, FM DETECTOR			
T3	1-404-552-11	TRANSFORMER, AM IF			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR			
T801 ⚠	1-448-163-11	TRANSFORMER, POWER			

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